

PVM-8200T

US and Canadian Model

Chassis No. SCC-248B-A



TRINITRON® COLOR VIDEO MONITOR

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT SONT IDENTIFIÉS DANS CE MANUEL. SUIVRE LES PROCÉDURES QUAND LES COMPOSANTS CRITIQUES SONT REMPLACÉS OU LE FONCTIONNEMENT IMPROPRE EST SUSPECTÉ.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

SPECIFICATIONS

Television System:	EIA standard
Color System:	NTSC
Picture Tube:	20.3 cm, 8" (screen measured diagonally), 70° deflection TRINITRON system
Semiconductors:	1 IC, 63 transistors and 46 diodes
Video System:	R. G. B. cathode drive
Video Input:	0.7 Vp-p non-composite 1 Vp-p composite video signal ± 6 dB positive
Sync Input:	4 Vp-p ± 6 dB negative
Video/Sync Input Impedance:	High-impedance for loop-through 75 Ω terminated
Anode Voltage:	18 kV at zero beam current
Power Requirements:	120 V ac, 50/60 Hz

— Continued on next page —

SONY®
SERVICE MANUAL

Power Consumption: 48 W ac (max.)

Dimensions: Approx. 216 (w) x 229 (h) x 521 (d) mm
8 ½ (w) x 9 ½ (h) x 20 ½ (d) inches
including projecting parts and controls
Approx. 216 (w) x 220 (h) x 521 (d) mm
8 ½ (w) x 8 ½ (h) x 20 ½ (d) inches
excluding bottom feet

Weight: Approx. 12 kg (26 lb 7 oz)

Supplied Accessories: Number plates
Instruction manual

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

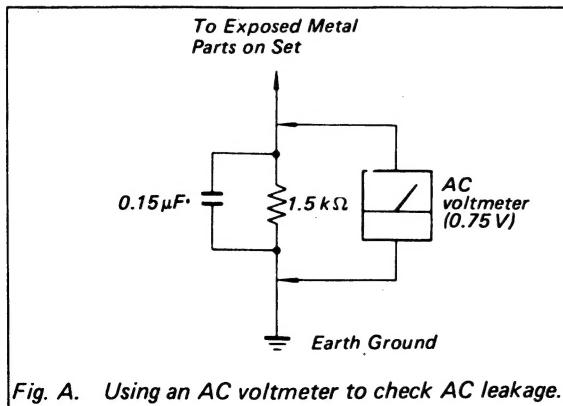


Fig. A. Using an AC voltmeter to check AC leakage.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

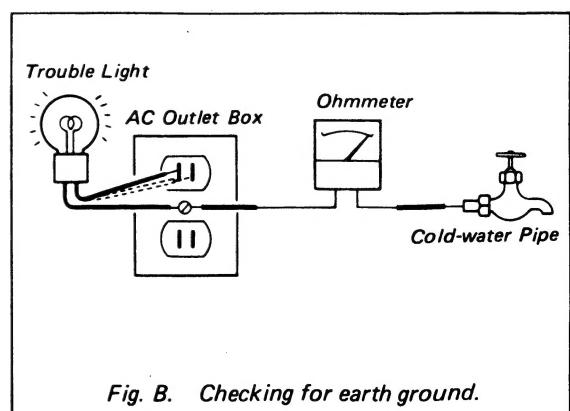
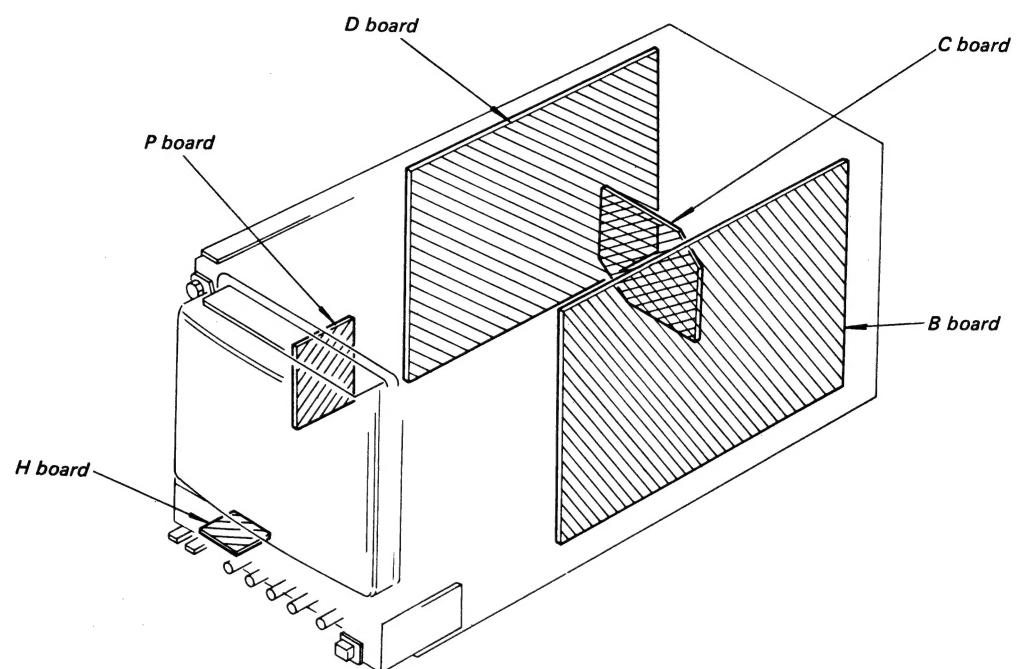
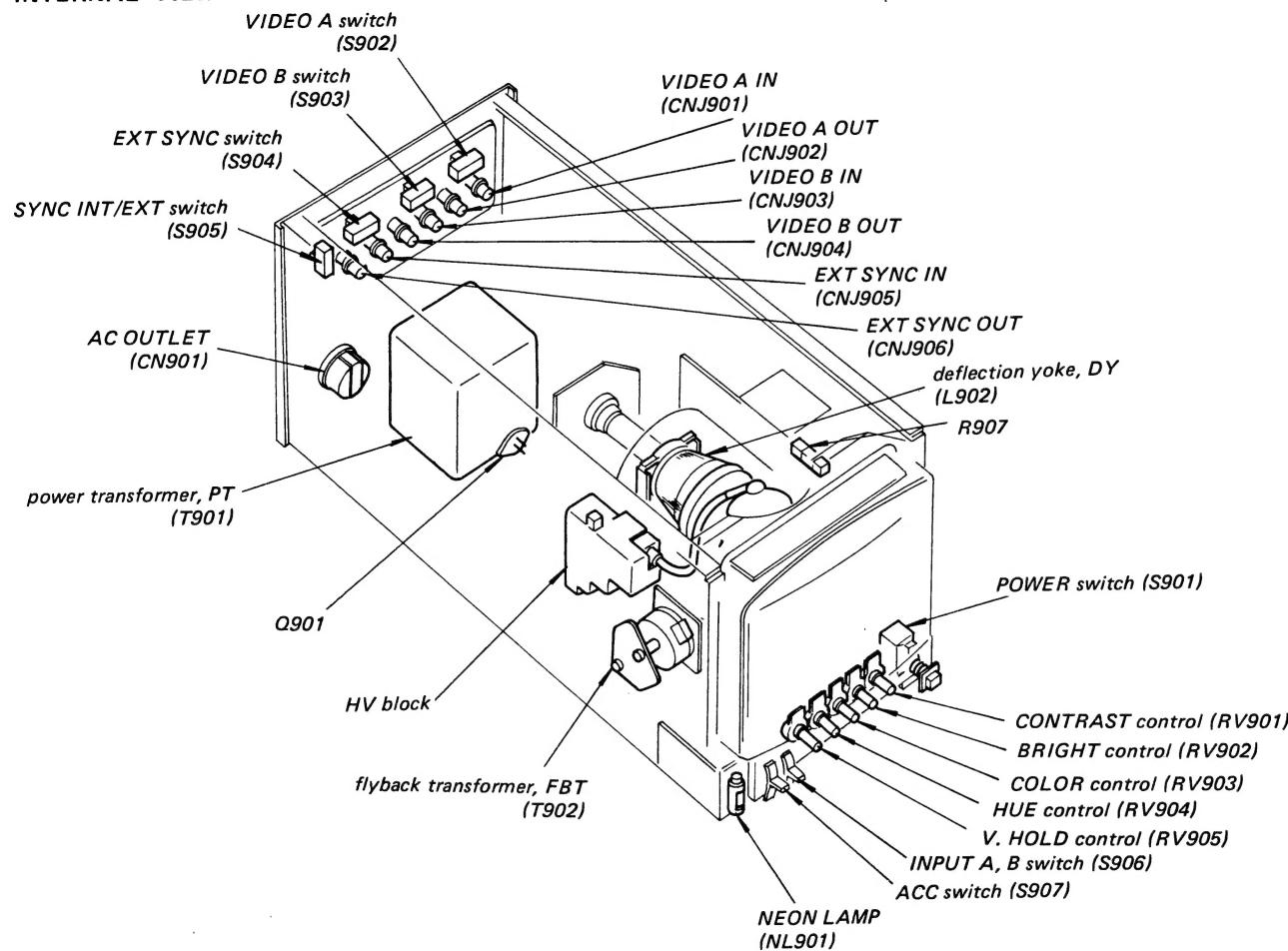


Fig. B. Checking for earth ground.

CIRCUIT BOARDS LOCATION

SECTION 1 OUTLINE

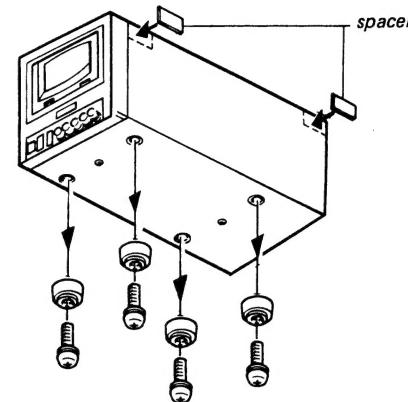
1-1. INTERNAL VIEW



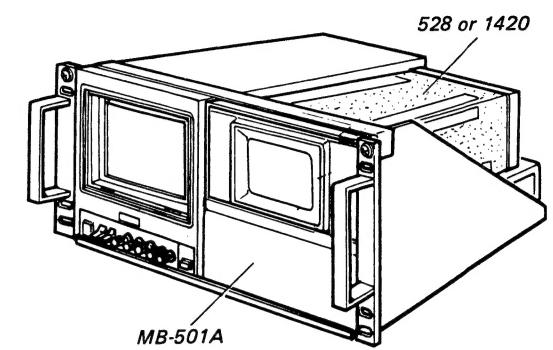
1-2. MOUNTING INSTRUCTION OF MB-500A

If one monitor is joined to another, use a mounting bracket MB-500A.

- ① Remove the bottom feet and screws (+PS3 x 10).

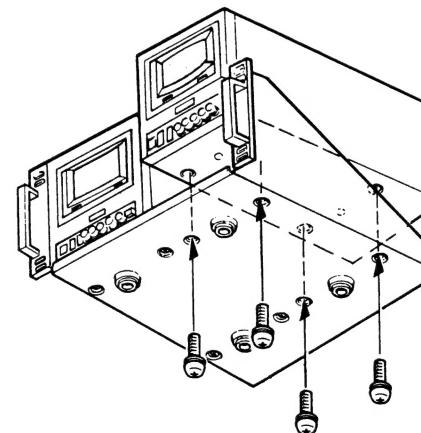


- In place of the monitor, a TEKTRONIX model 528 waveform monitor or model 1420 vectorscope can be installed into the bracket by using the optional MB-501A mounting attachment.



- ② Stick two supplied spacers on one side of the upper case that faces the other monitor.

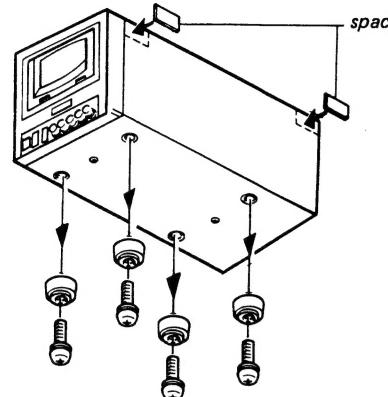
- ② Fix two monitors to the mounting bracket by supplied screws (+PS3 x 10).



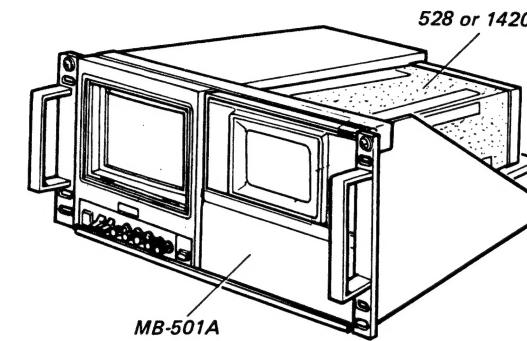
1-2. MOUNTING INSTRUCTION OF MB-500A

If one monitor is joined to another, use a mounting bracket MB-500A.

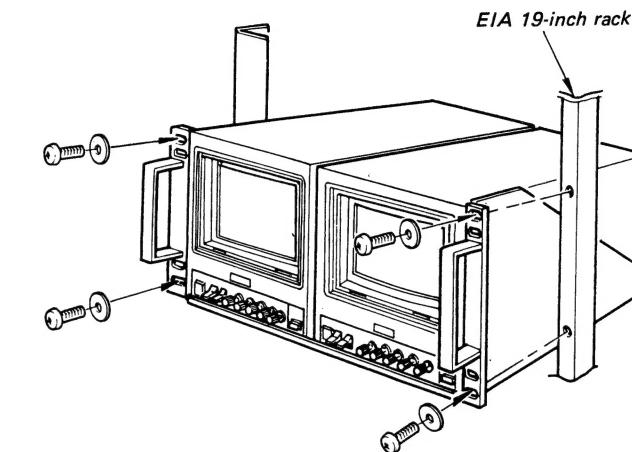
① Remove the bottom feet and screws (+PS3 x 10).



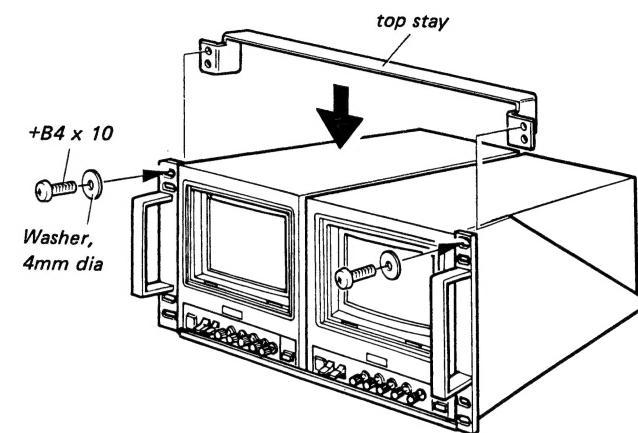
- In place of the monitor, a TEKTRONIX model 528 waveform monitor or model 1420 vectorscope can be installed into the bracket by using the optional MB-501A mounting attachment.



③ Install the mounting bracket in an EIA standard 19-inch rack as illustrated below. If necessary, remove the bottom feet from the mounting bracket.

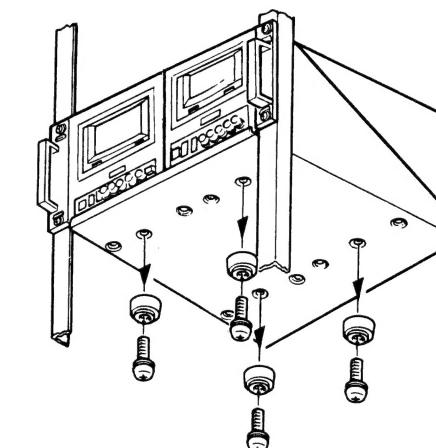
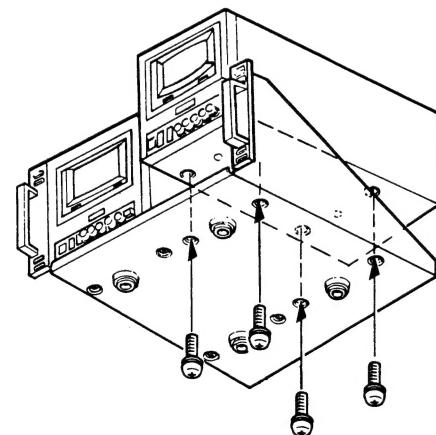


- If rack mounting is not necessary, install the supplied top stay and use the monitor without removing the bottom feet so as not to close the bottom ventilators.

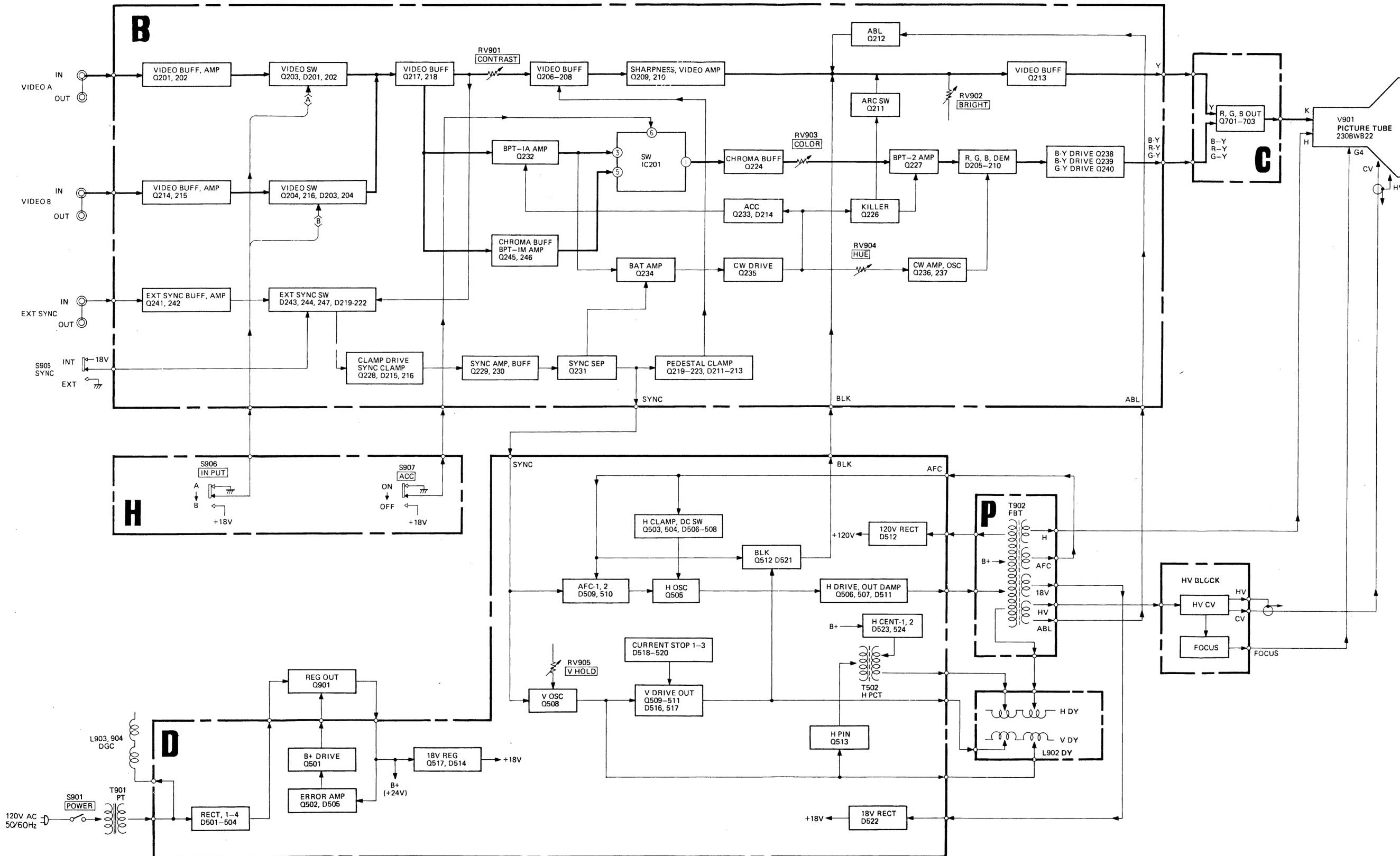
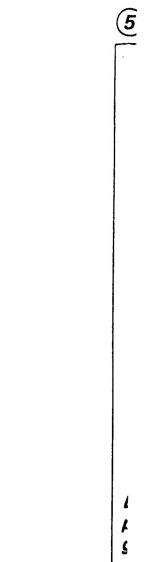


- Stick two supplied spacers on one side of the upper case that faces the other monitor.

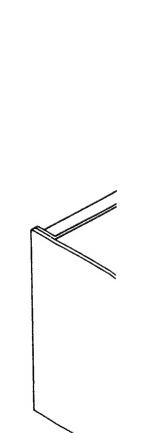
② Fix two monitors to the mounting bracket by supplied screws (+PS3 x 10).



1-3. BLOCK DIAGRAM

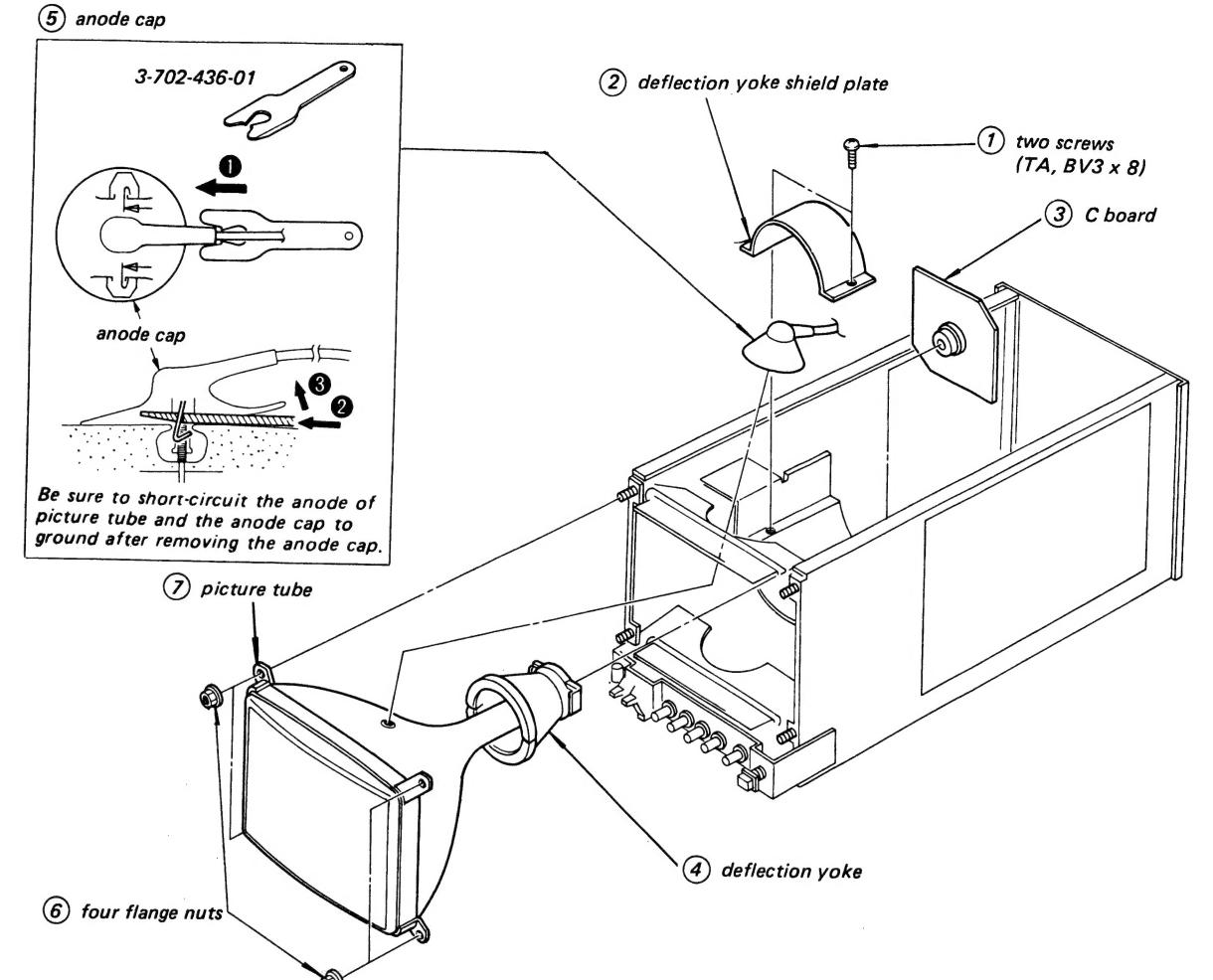
2-1. PIC¹

2-2. HV

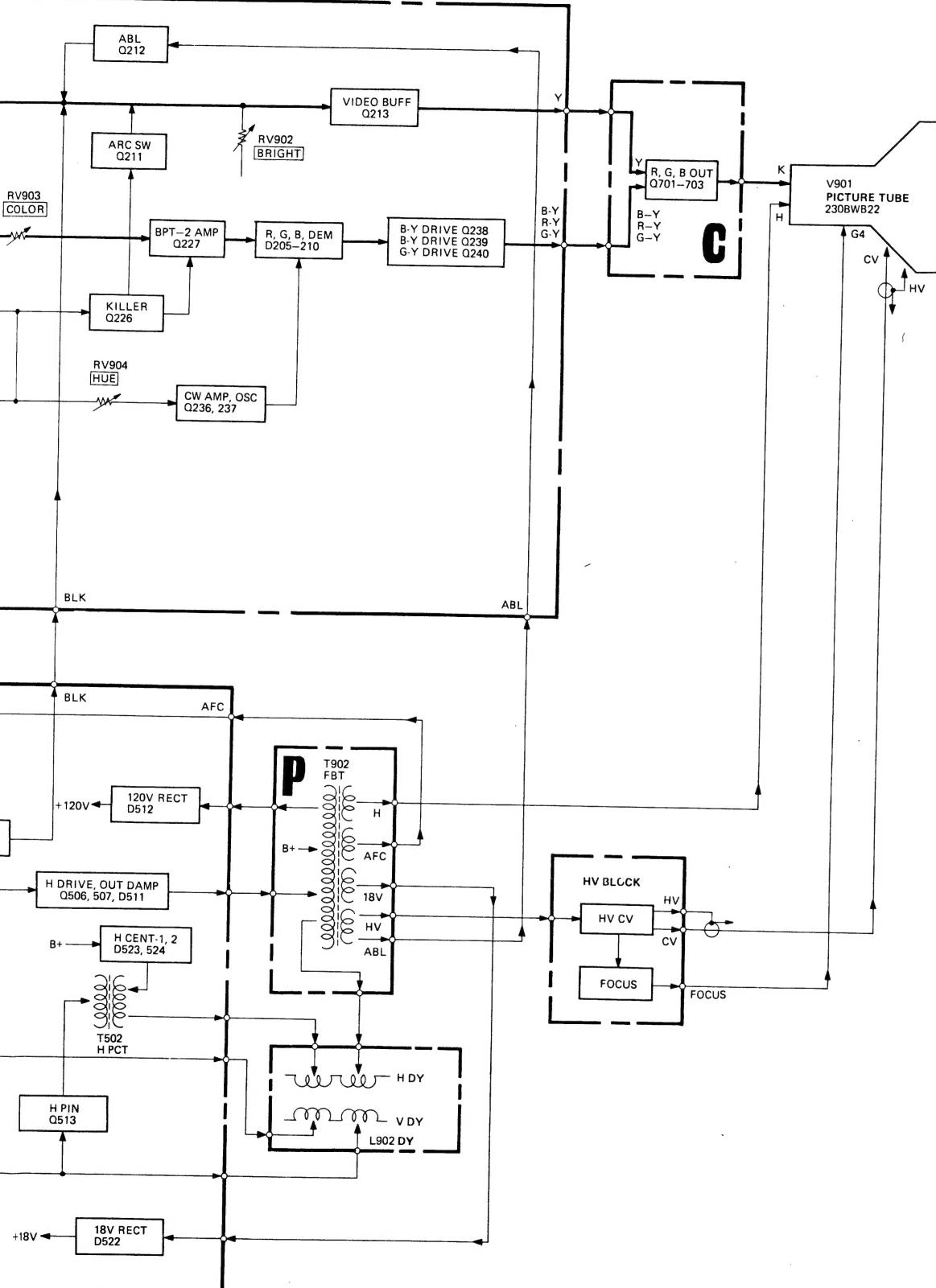
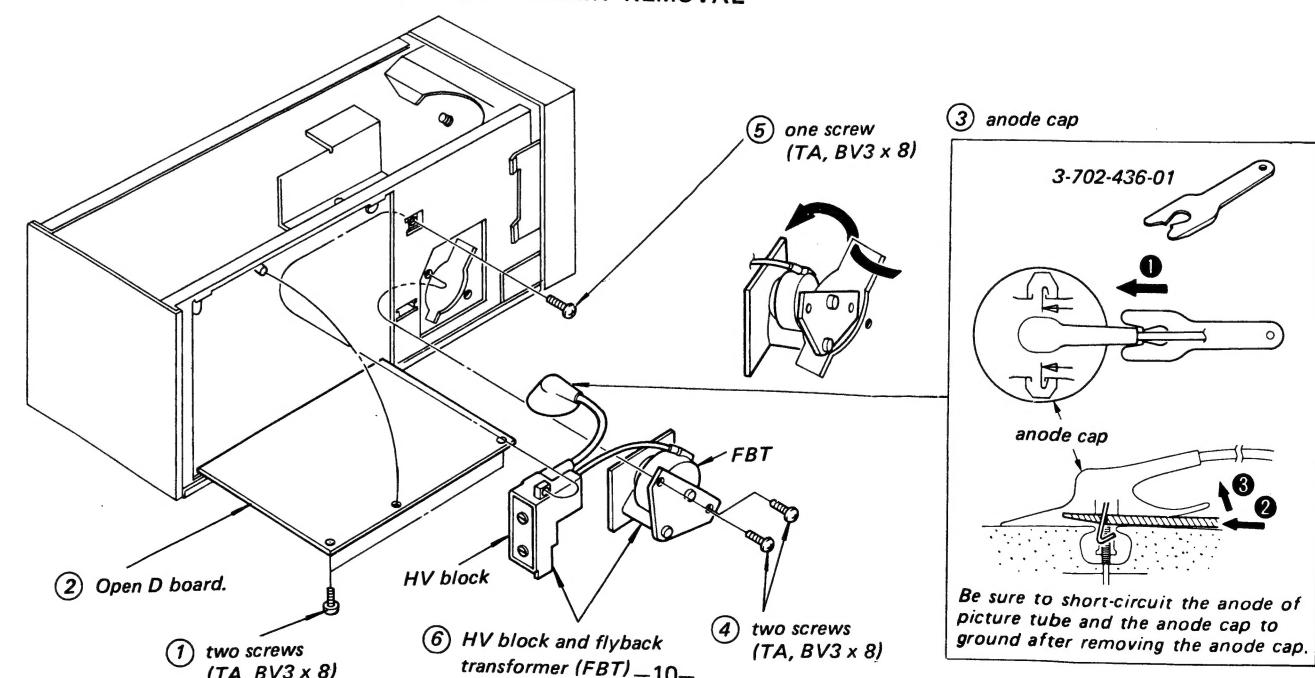


SECTION 2 DISASSEMBLY

2-1. PICTURE TUBE REMOVAL



2-2. HV BLOCK AND FLYBACK TRANSFORMER REMOVAL



SECTION 3 SETUP ADJUSTMENTS

SCC-248B-A

PVM-8200T PVM-8200T

SCC-248B-A

Note: (1) Remove the deflection yoke shield plate for the following adjustments and be sure to install it after adjustments.

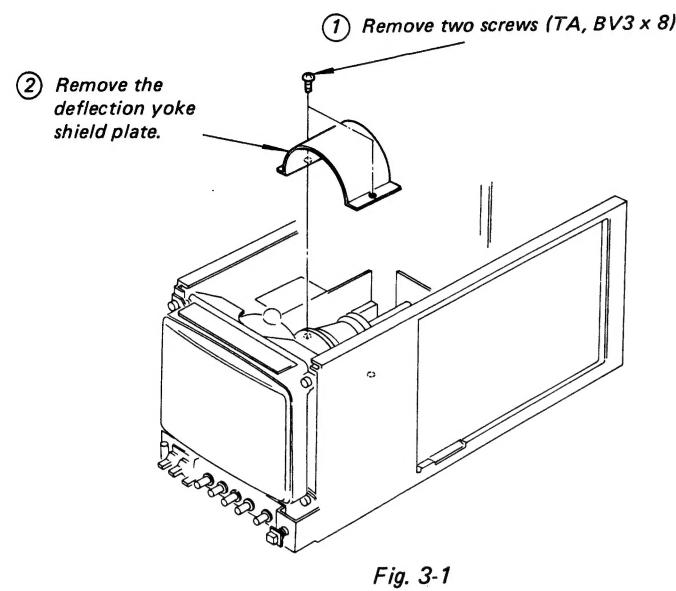


Fig. 3-1

(2) The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
 (3) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows:

CONTRAST control } maximum
 BRIGHT control } (fully clockwise)

Make the following adjustments in the order given.

1. Beam Landing
2. Focus
3. Convergence
4. White Balance

Note: Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Video tuner SONY Model "VTU-200" or equivalent.

3-1. BEAM LANDING

Preparation:

- Feed in the white pattern signal to VIDEO IN/OUT connector through video tuner from color-bar/pattern generator.
- Before starting, degauss the entire screen.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Adjust purity magnet tabs as shown in Fig. 3-2.
4. Slide deflection yoke as far forward as it will go.
5. Disconnect leads ⑦ and ⑧ on the C board.
6. Adjust purity magnet tabs to center vertical green band as shown in Fig. 3-3.
7. Slide deflection yoke back for a uniform green screen.
8. Check red and blue rasters for uniformity by performing the same way as steps 4, 5 and 6.

To get a uniform red screen,
 . . . connect lead ⑦ and disconnect leads ⑥ and ⑧ on the C board.

To get a uniform blue screen,
 . . . connect lead ⑧ and disconnect leads ⑥ and ⑦ on the C board.

After these checks, connect the leads ⑥, ⑦ and ⑧.

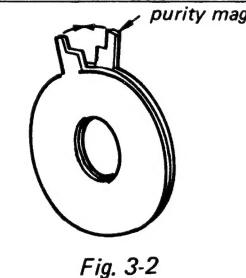


Fig. 3-2

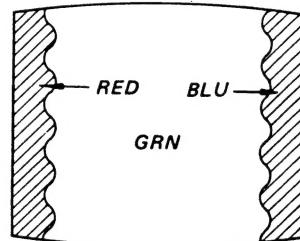


Fig. 3-3

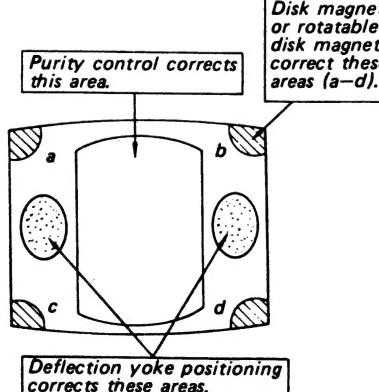


Fig. 3-4

9. Tighten the deflection yoke screw.
10. Install the deflection yoke spacers.

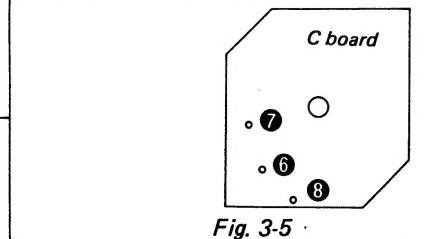


Fig. 3-5

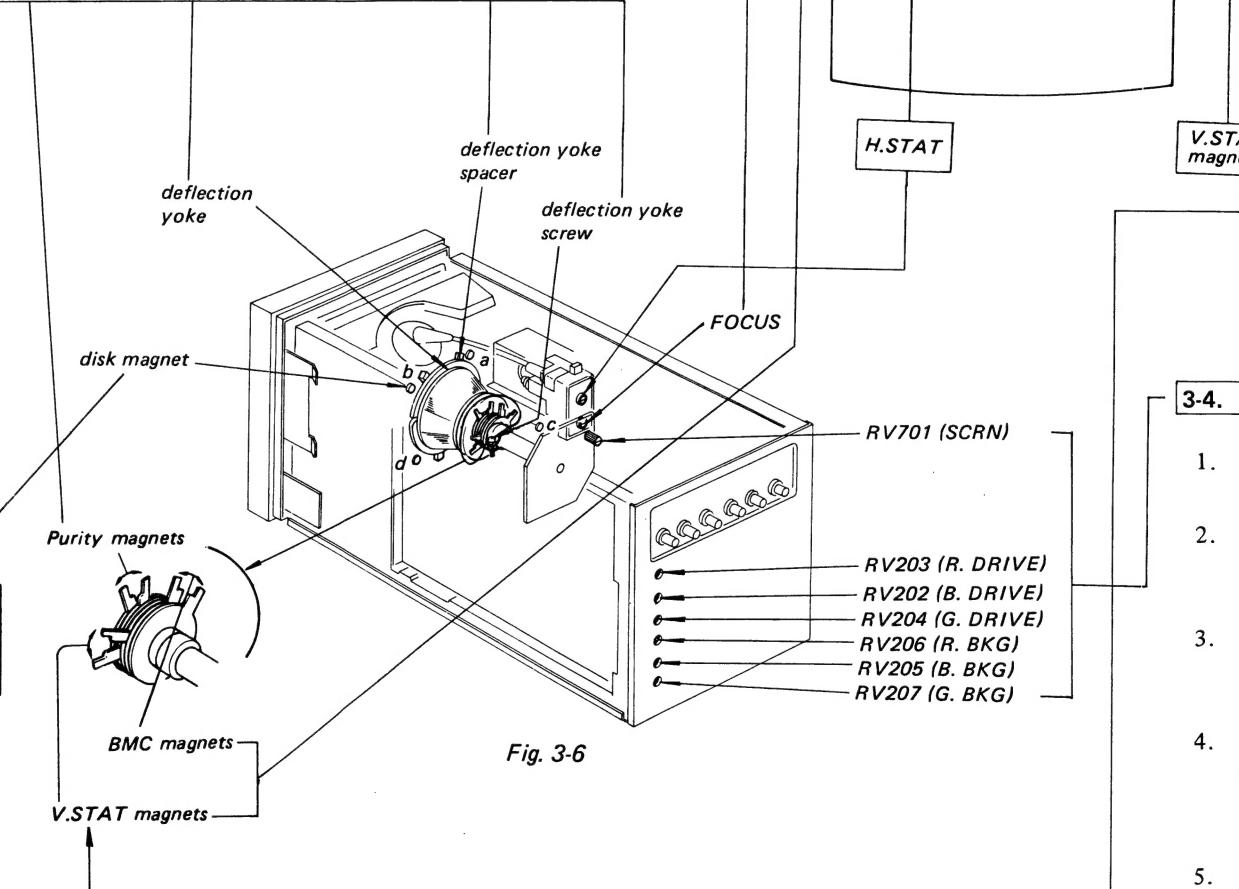


Fig. 3-6

11. Check if mislanding appears at corners a-d as shown in Fig. 3-4. If mislanding is observed, correct it as shown in Fig. 3-4.
12. Confirm that beam landing is correct when the receiver is faced in all directions.

3-2. FOCUS

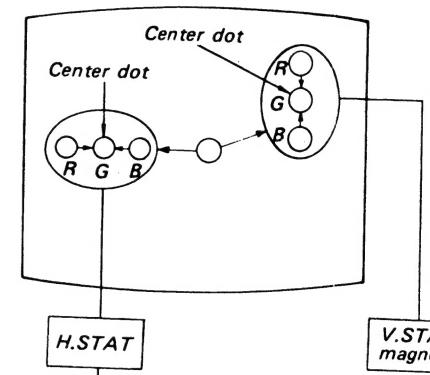
Adjust FOCUS control for best focus.

3-3. CONVERGENCE

Preparation:

- Before starting, perform FOCUS, and V. SIZE adjustments.
- Turn BRIGHT control fully counterclockwise, and set CONTRAST control to mechanical center.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence



If blue dot does not coincide with red and green dots; Rotate BMC magnet tabs to correct insufficient H and V static convergence.
 After rotating the BMC magnet tabs, perform Beam Landing Adjustment.

3-4. WHITE BALANCE

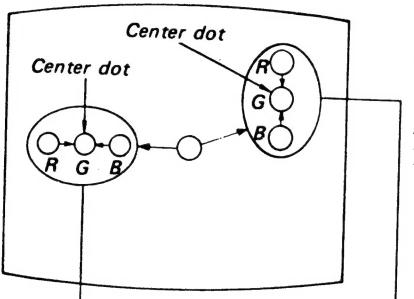
1. Turn COLOR, BRIGHT and CONTRAST controls fully counterclockwise.
2. Turn R. DRIVE (RV203), G. DRIVE (RV204) and B. DRIVE (RV202) controls fully clockwise.
3. Set R. BKG (RV206), G. BKG (RV207) and B. BKG (RV205) controls to mechanical center.
4. Turn SCRN (RV701) control slowly to obtain a faintly visible cross-hatch. Note the color that first becomes visible by turning SCRN control. Do not turn a BKG control for this color.
5. Adjust the other two BKG controls for best white balance (neutral gray) of the faint cross-hatch.
6. Turn BRIGHT and CONTRAST controls fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.
7. Repeat Steps 1 through 6 several times.

3-2. FOCUS

Adjust FOCUS control for best focus.

3-3. CONVERGENCE**Preparation:**

- Before starting, perform FOCUS, and V. SIZE adjustments.
- Turn BRIGHT control fully counterclockwise, and set CONTRAST control to mechanical center.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence

If blue dot does not coincide with red and green dots; Rotate BMC magnet tabs to correct insufficient H and V static convergence. After rotating the BMC magnet tabs, perform Beam Landing Adjustment.

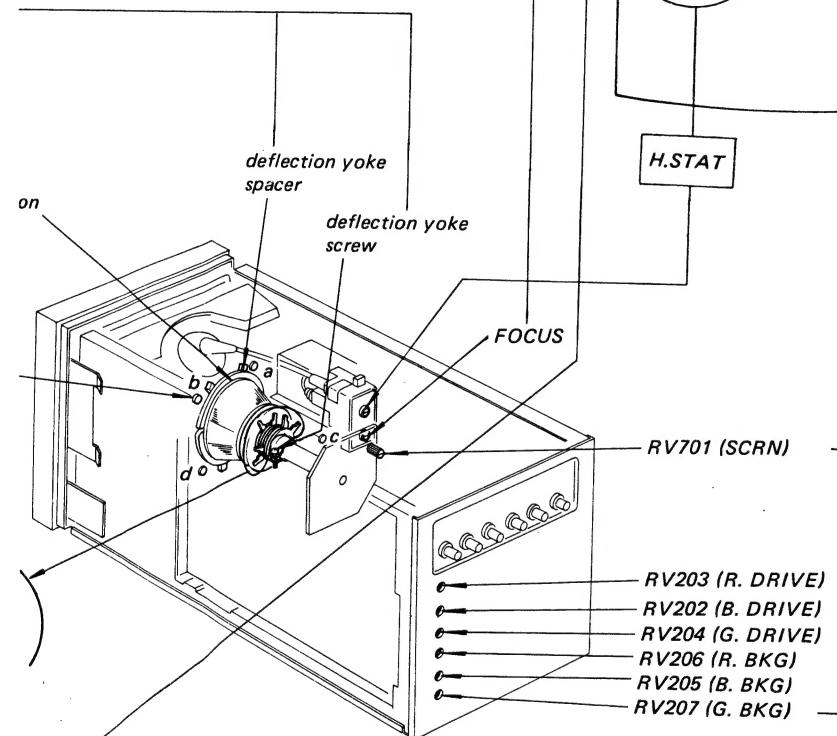


Fig. 3-6

(2) Dynamic Convergence Adjustment**Preparation:**

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown in Fig. 3-7.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

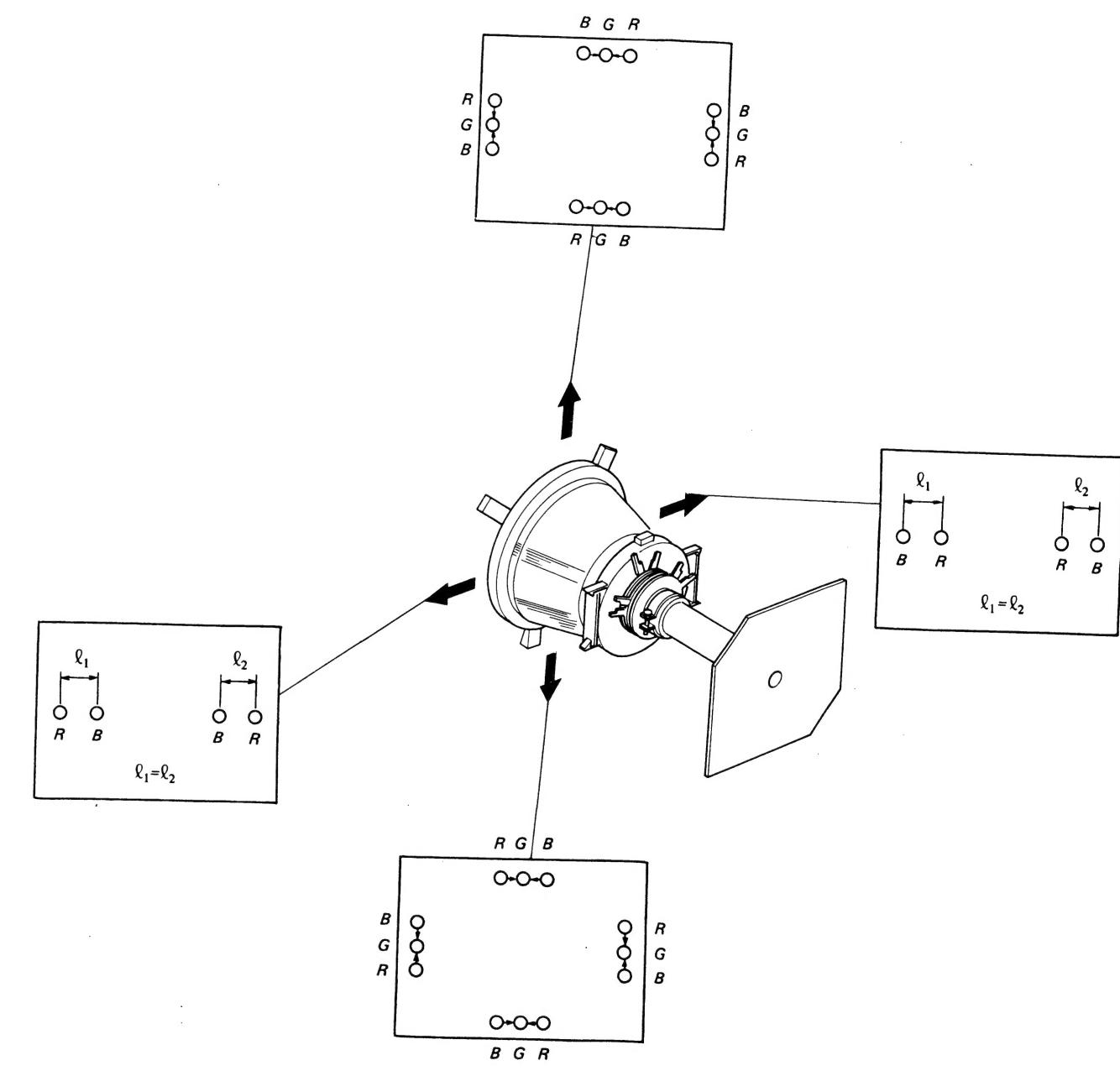


Fig. 3-7

11. Check if mislanding appears at corners a-d as shown in Fig. 3-4. If mislanding is observed, correct it as shown in Fig. 3-4.

12. Confirm that beam landing is correct when the receiver is faced in all directions.

SECTION 4 CIRCUIT ADJUSTMENTS

Note: (1) TEST EQUIPMENT REQUIRED

1. Oscilloscope
2. Variable autotransformer
3. Digital multimeter
4. Color-bar/pattern generator
5. Video tuner SONY Model "VTU-200" or equivalent
6. Regulated-dc power supply

(2) INPUT SIGNAL

When making these adjustments, feed a crosshatch, color-bar or dots pattern signal to VIDEO IN/OUT connector through video tuner.

(3) CONTROL AND SWITCH SETTINGS

Controls and switch should be set as follows when making adjustments unless otherwise noted.

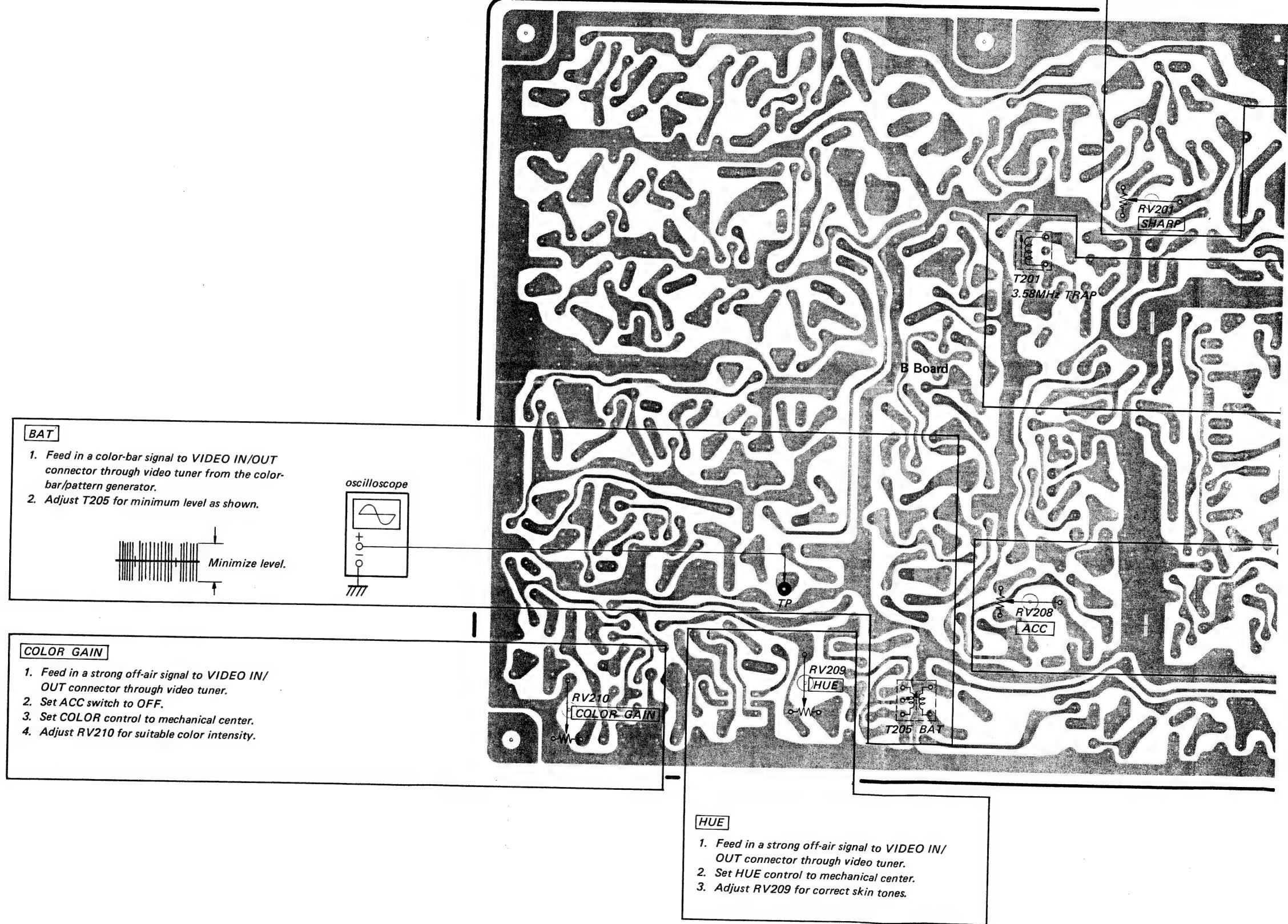
CONTRAST control
HUE control
BRIGHT control Set for best picture.
COLOR control
ACC switch ON

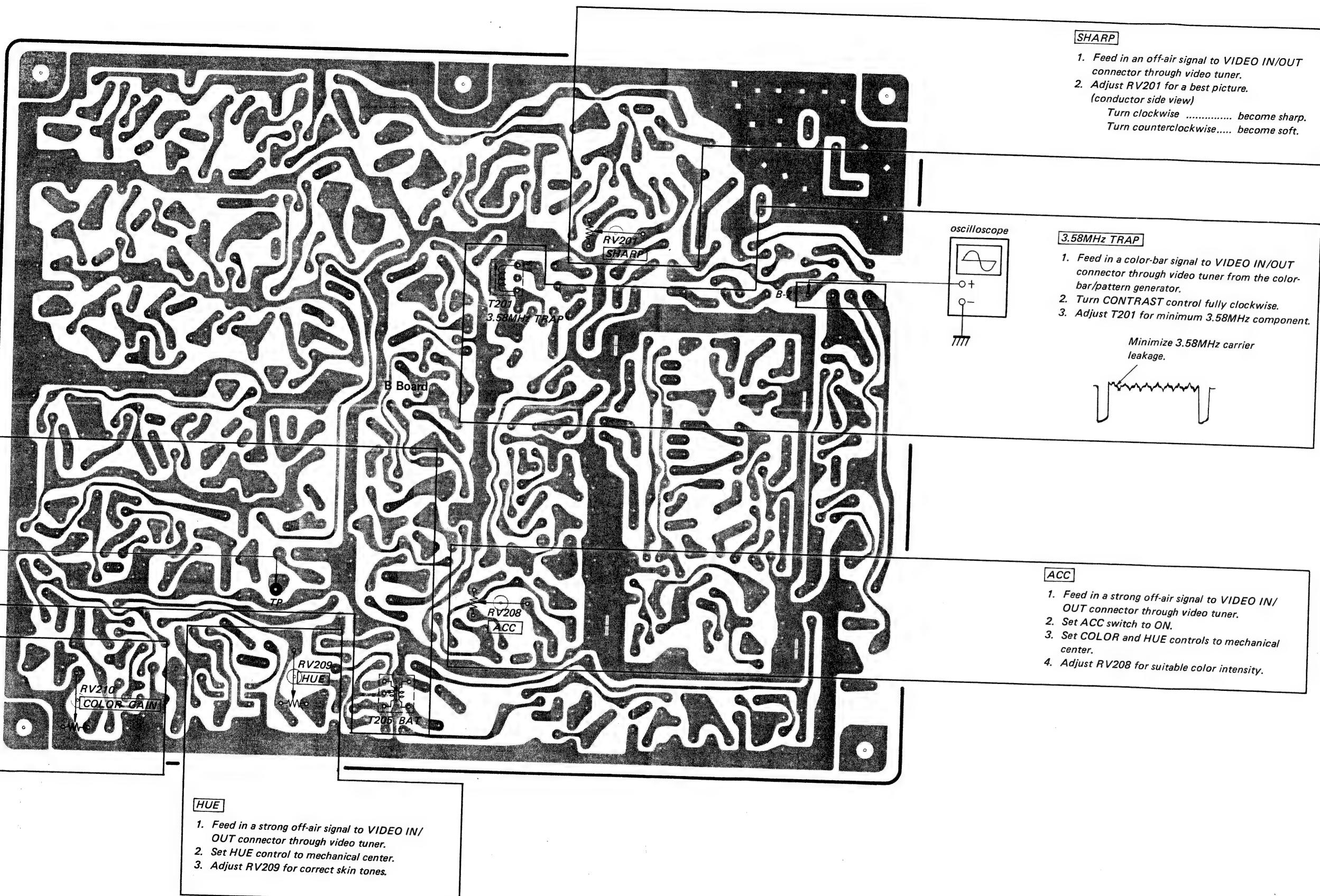
(4) These adjustments should be performed with the rated power supply voltage unless otherwise noted.

(5) CIRCUIT ADJUSTMENTS

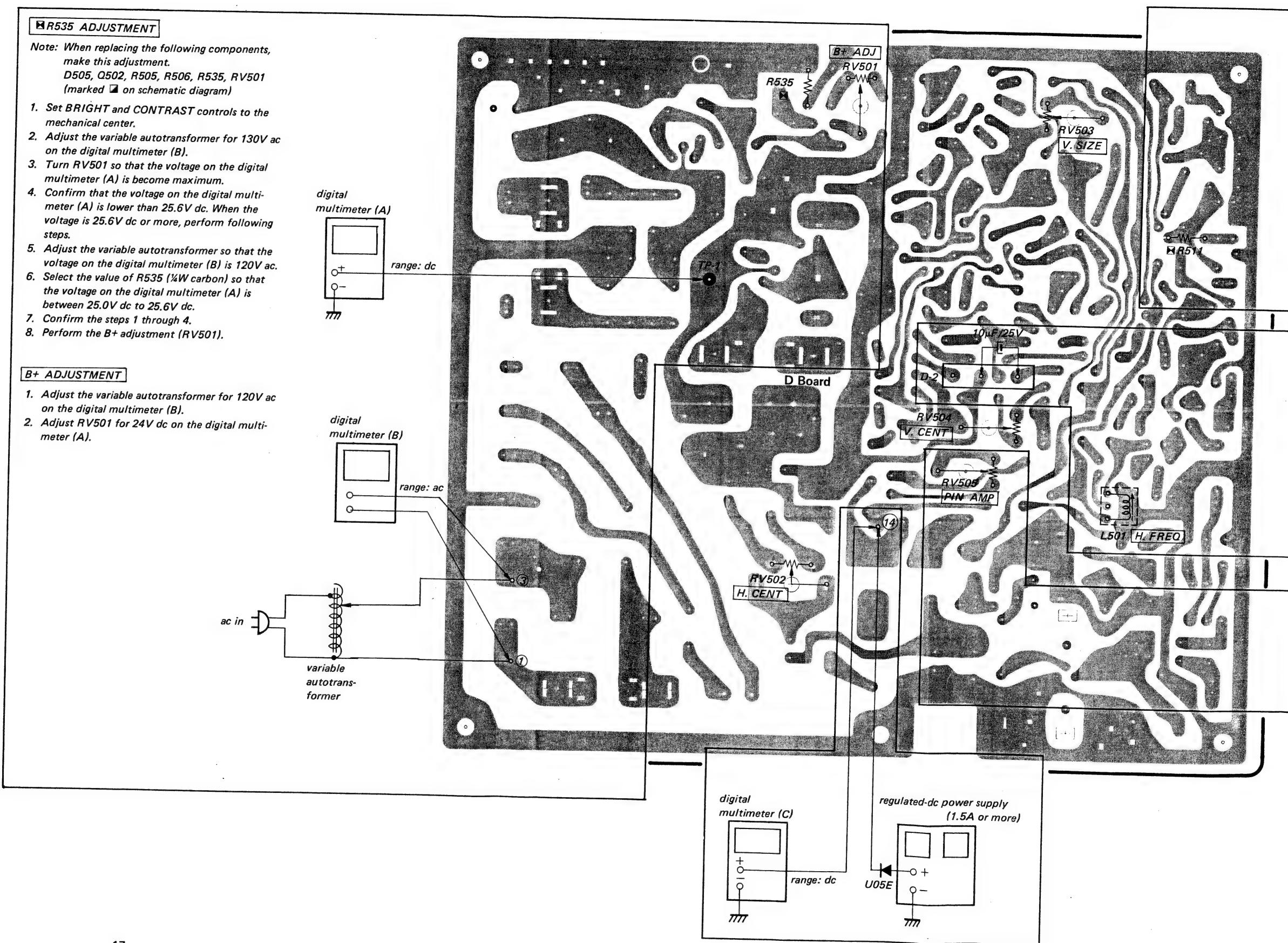
Adjustment	Circuit Board	Page
BAT	B	12, 13, 14
COLOR GAIN		
HUE		
SHARP		
3.58MHz TRAP		
ACC	D	15, 16, 17
<input checked="" type="checkbox"/> R535 adjustment		
B+ adjustment		
<input checked="" type="checkbox"/> R511 adjustment		
H. FREQ		
PINCUSHION AMP		

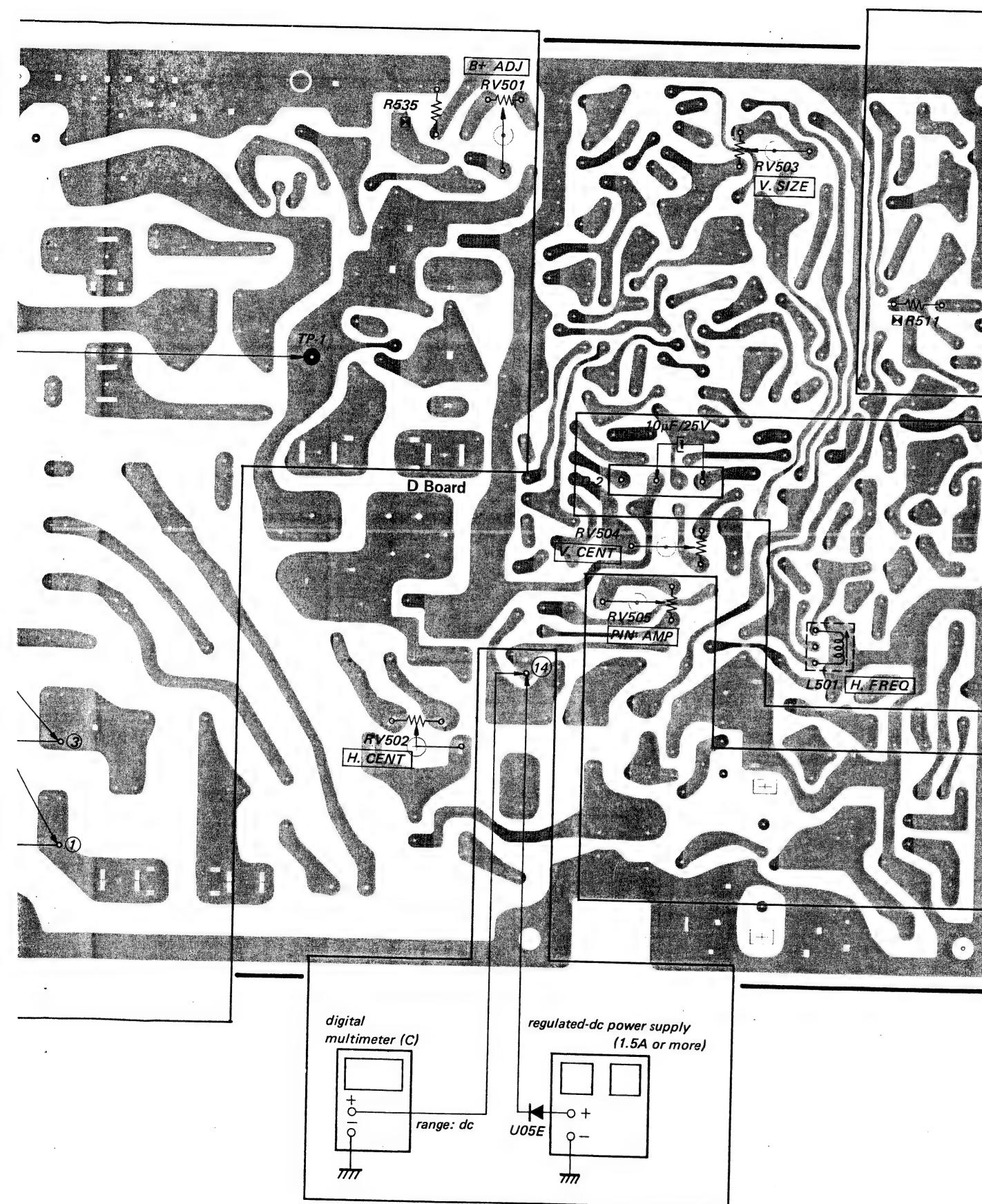
4-1. B BOARD ADJUSTMENTS





4-2. D BOARD ADJUSTMENTS



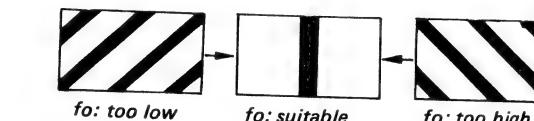
**R511 ADJUSTMENT**

Note: When replacing the following components, make this adjustment.
D507, Q503, R510, R511, R512, R513, T902 (FBT) (marked on schematic diagram)

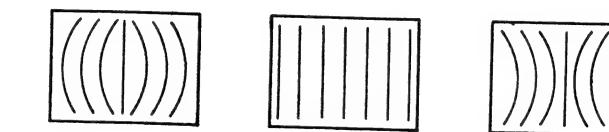
1. Feed in dots pattern from the color-bar/pattern generator.
2. Set the CONTRAST control to maximum and the BRIGHT control to minimum.
3. Connect the digital multimeter (C) and the regulated-dc power supply through the diode (U05E) to the pin 14 as shown.
4. Adjust the regulated-dc power supply for 25.2V dc on the digital multimeter (C).
5. Confirm that the horizontal oscillation is stopped and no raster is obtained. If this conformation is not obtained, perform following steps 6 through 10.
6. Adjust the regulated-dc power supply for 24.8V dc on the digital multimeter (C).
7. Select the value of R511 (1/4W carbon) so that no raster is obtained.
8. Turn off the POWER switch and on after few minutes. Then confirm steps 9 and 10.
9. Adjust the regulated-dc power supply for 24.5V dc on the digital multimeter (C) and confirm that the set operates normally.
10. Adjust the regulated-dc power supply for 25.2V dc on the digital multimeter (C) and confirm that the horizontal oscillation is stopped and no raster is obtained.

H. FREQ

1. Connect an electrolytic capacitor (10μF 25V) during this adjustment as shown.
2. Adjust L501 to synchronize the picture.

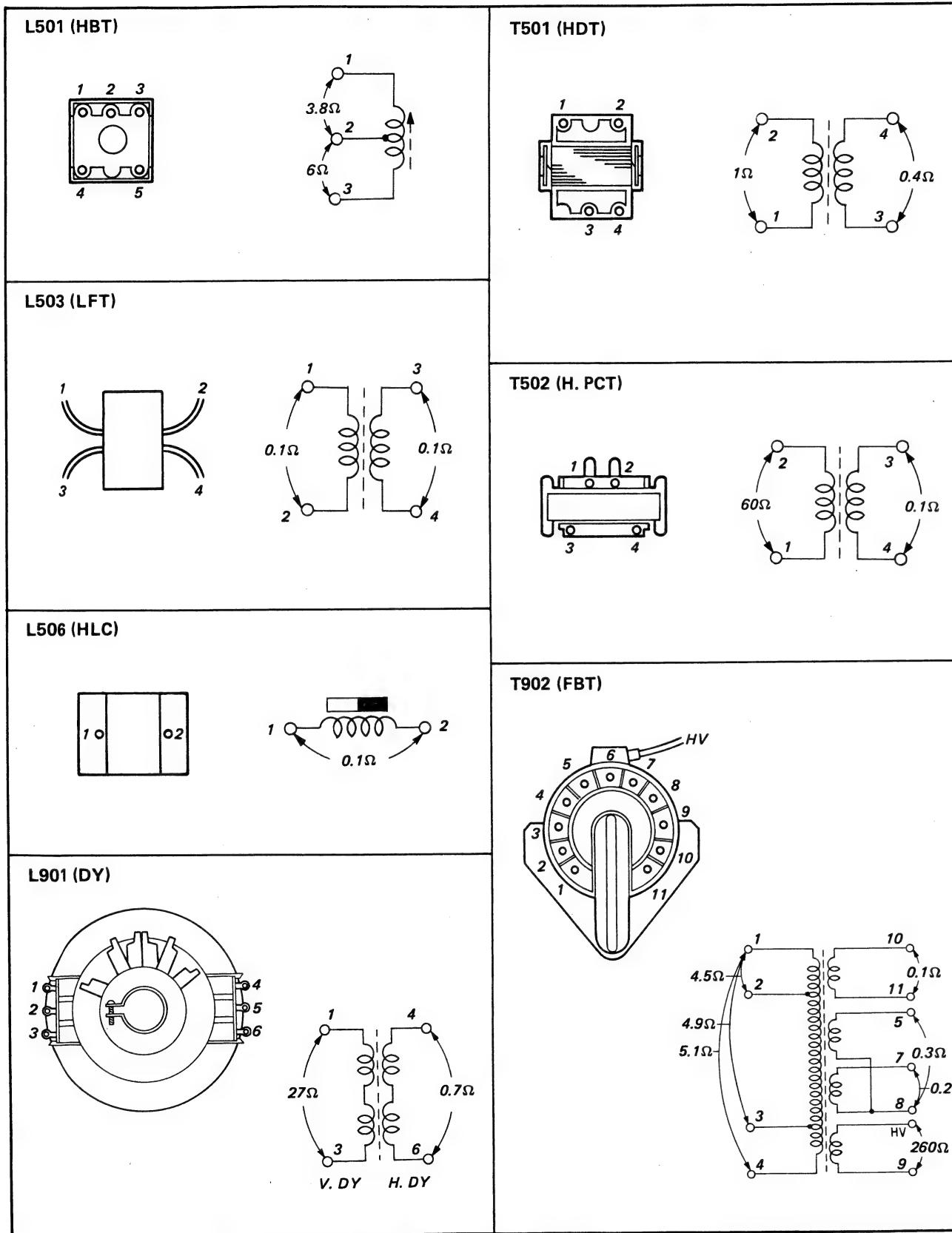
**PINCUSHION AMP**

Adjust RV505 to make vertical lines straight as shown below.



SECTION 5 DIAGRAMS

5-1. DC RESISTANCE AND WINDING DIAGRAMS OF COILS AND TRANSFORMERS



Note: DC resistance measurements shown with coils disconnected from circuit.

5-2. MOUNTING DIAGRAMS

— Conductor Side —

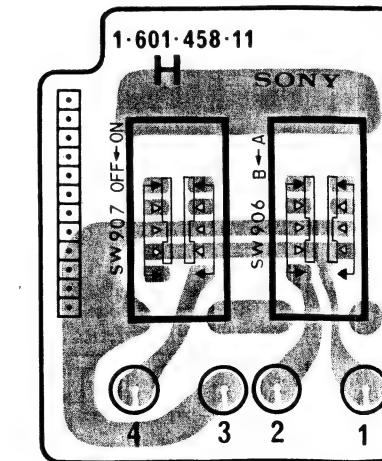
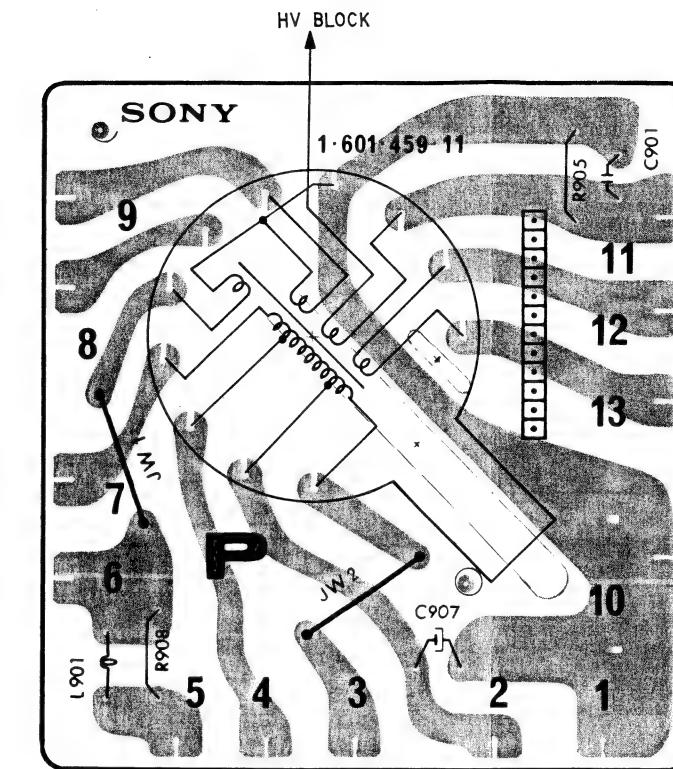
A

B

C

D

— P and H Boards —



5-2. MOUNTING DIAGRAMS

— Conductor Side —

**CUSTOMER
CONTROL**

H

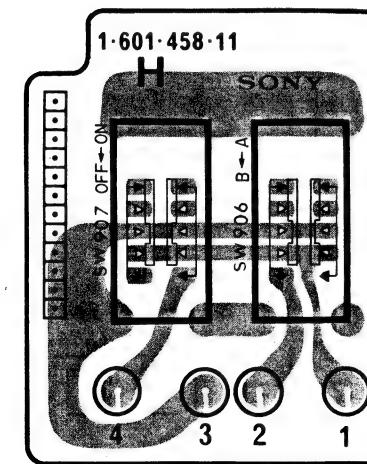
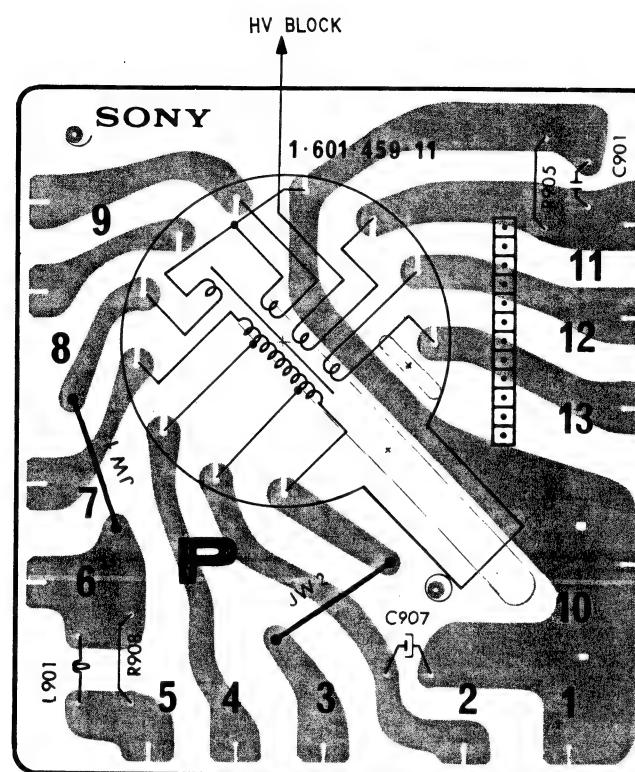
[FBT]

C

[R.G.B. OUT]

A

— P and H Boards —

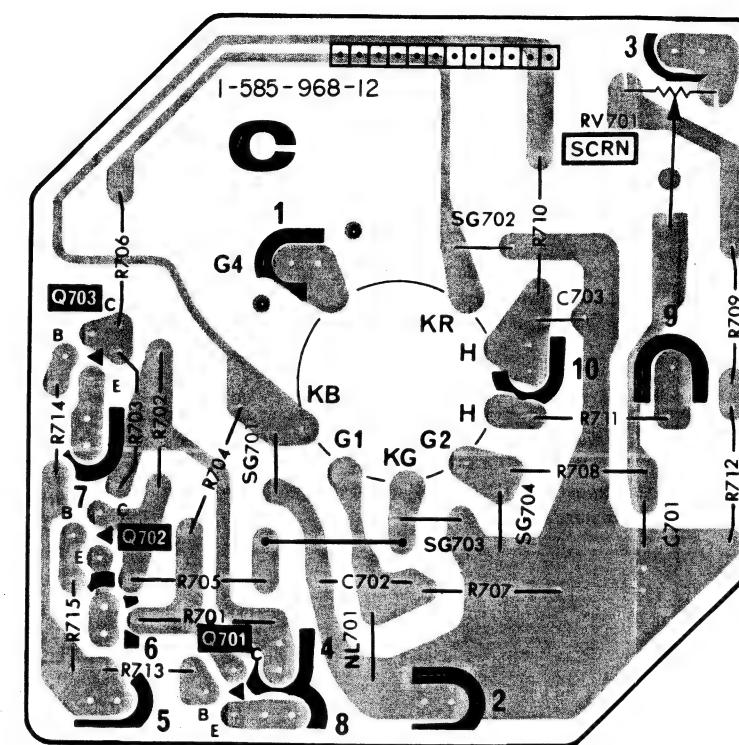


1

6

1

— C Board



AC RECT, R
H. V DEF

SCC-248B

PVM-8200T

PVM-8200T

SCC-248B-

D

— D. Board

2

1

1

G

A

B

C

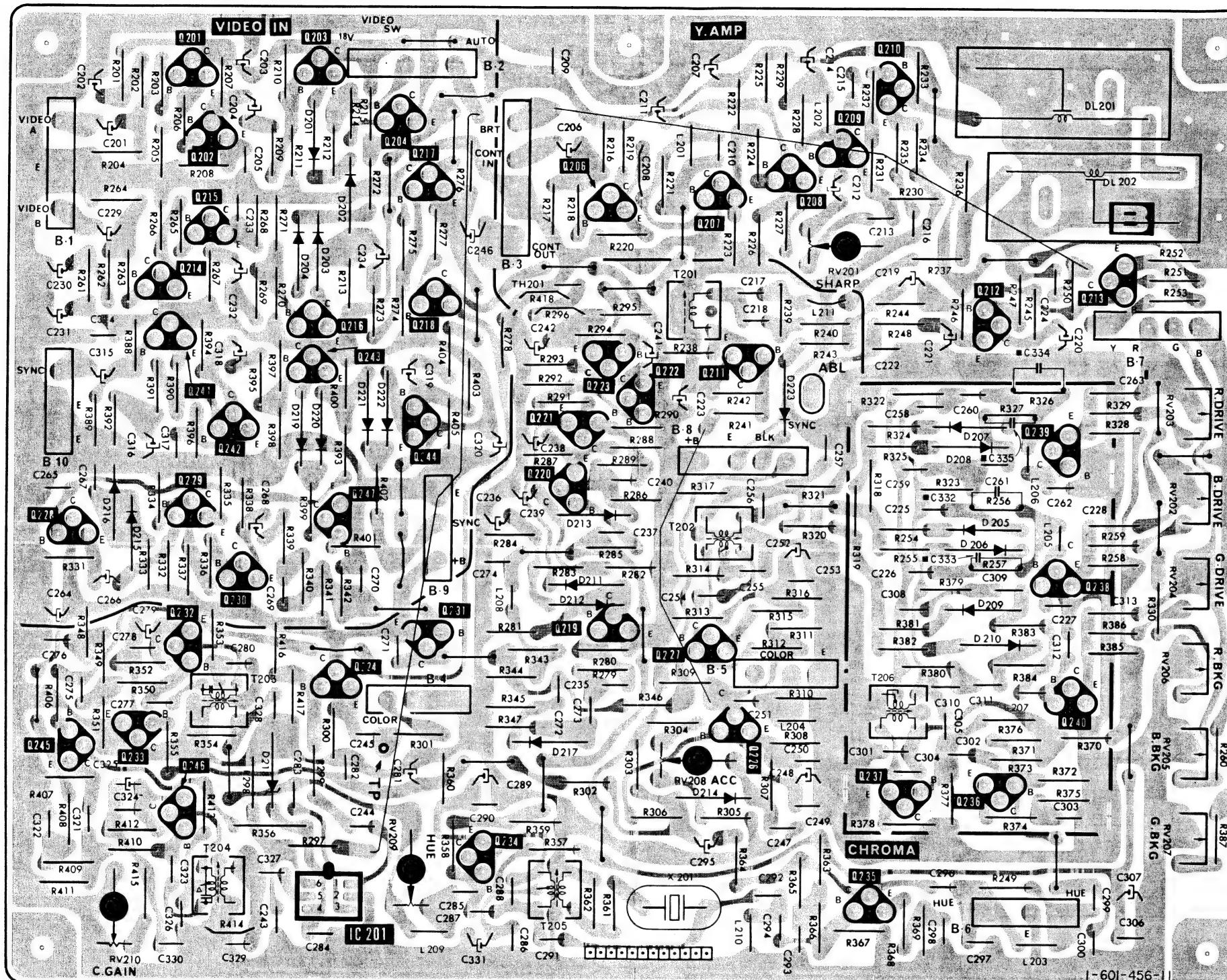
D

E

F

G

- B Board -



Q, IC	228 245	214 241 233	201 229 246	202 232	215 230	203 247	216 224	243 224	204 231	244 234	217 218	206 220	223 219	222 227	207 226	210 211	209 223	212 235	237 236	238 236	239 237	213 240	Q, IC
D		216 215			204 219	203 220	201 221	202 222				213 217	211 211	212 214	223 223		207 208	205 206	209 210	207 208	205 206	209 210	D
ADJ			RV210			RV209									RV201				RV203 RV205	RV202 RV207	RV206 RV207		ADJ

5-3. SCHEMATIC DIAGRAM

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note:

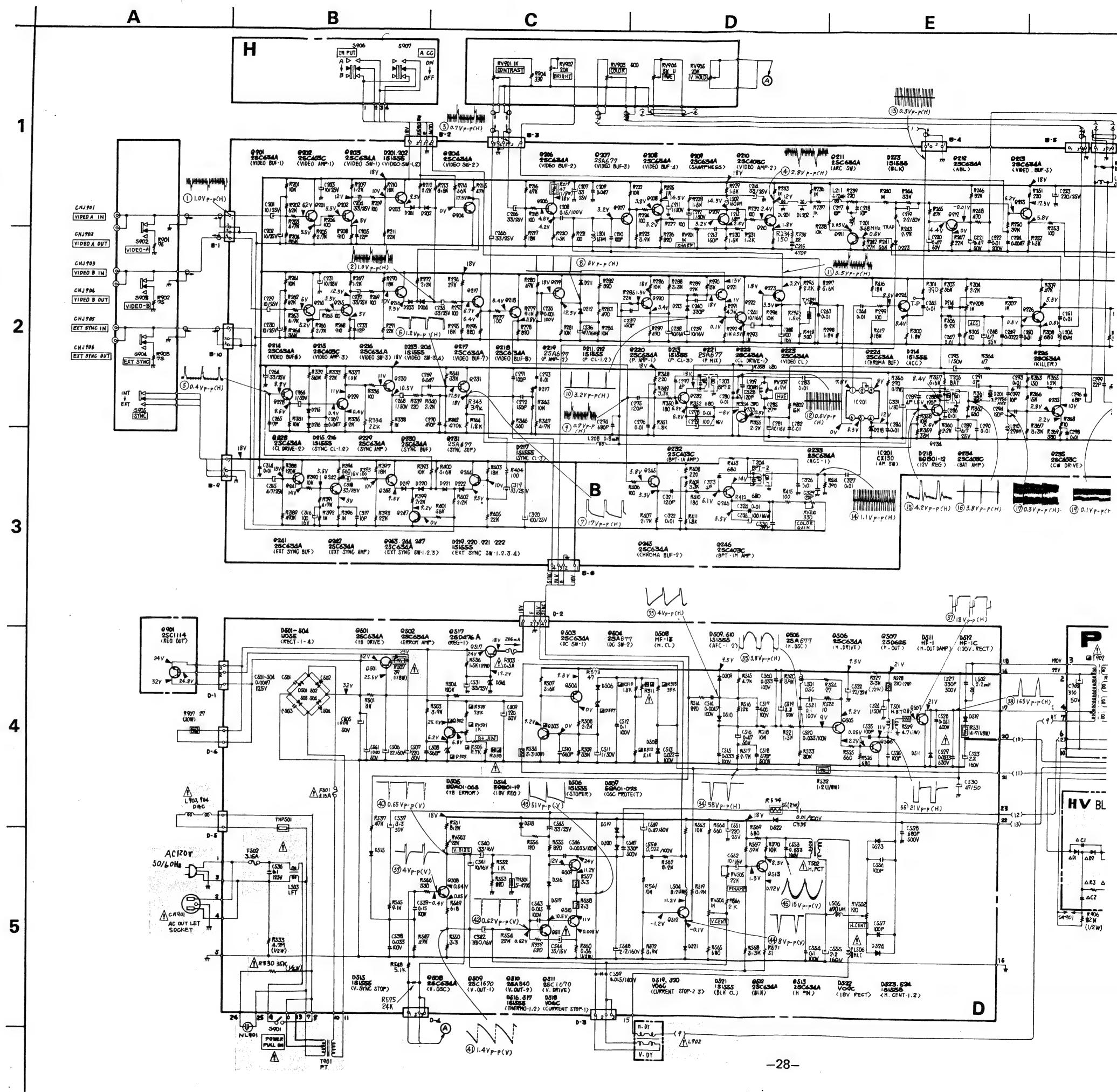
- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$
 50VW or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}\text{W}$ unless otherwise noted.
 $\text{k}\Omega$: 1000Ω , $\text{M}\Omega$: $1000\text{k}\Omega$
-  : nonflammable resistor.
- \triangle : internal component.
- : panel designation.
- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

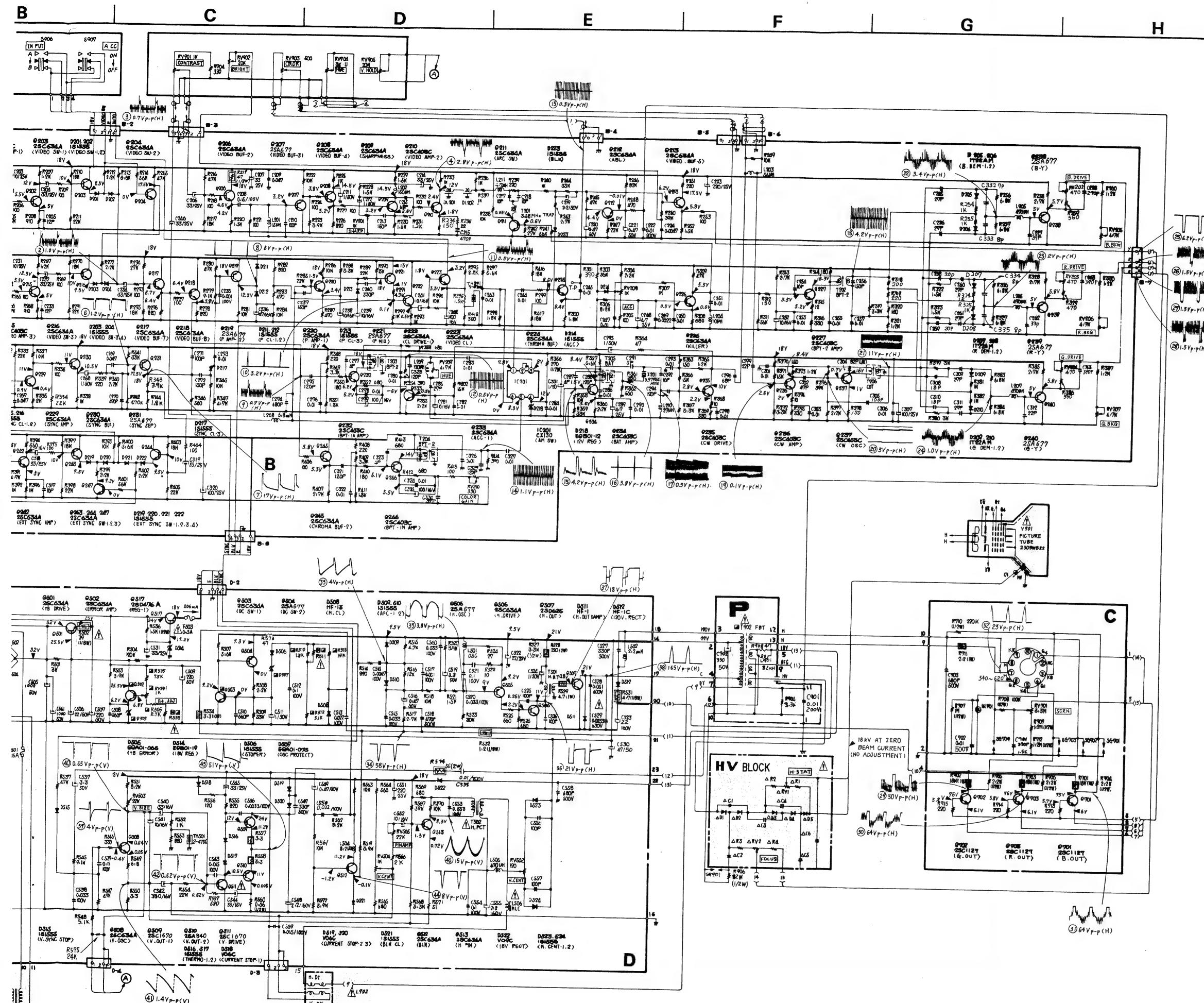
When replacing components identified by **█**, make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by **█** and repeat the adjustment until the specified value is achieved. (Refer to **█** R511 adjustment on page 17 and **█** R535 adjustment on page 15.)

When replacing the part in below table, be sure to perform the related adjustment.

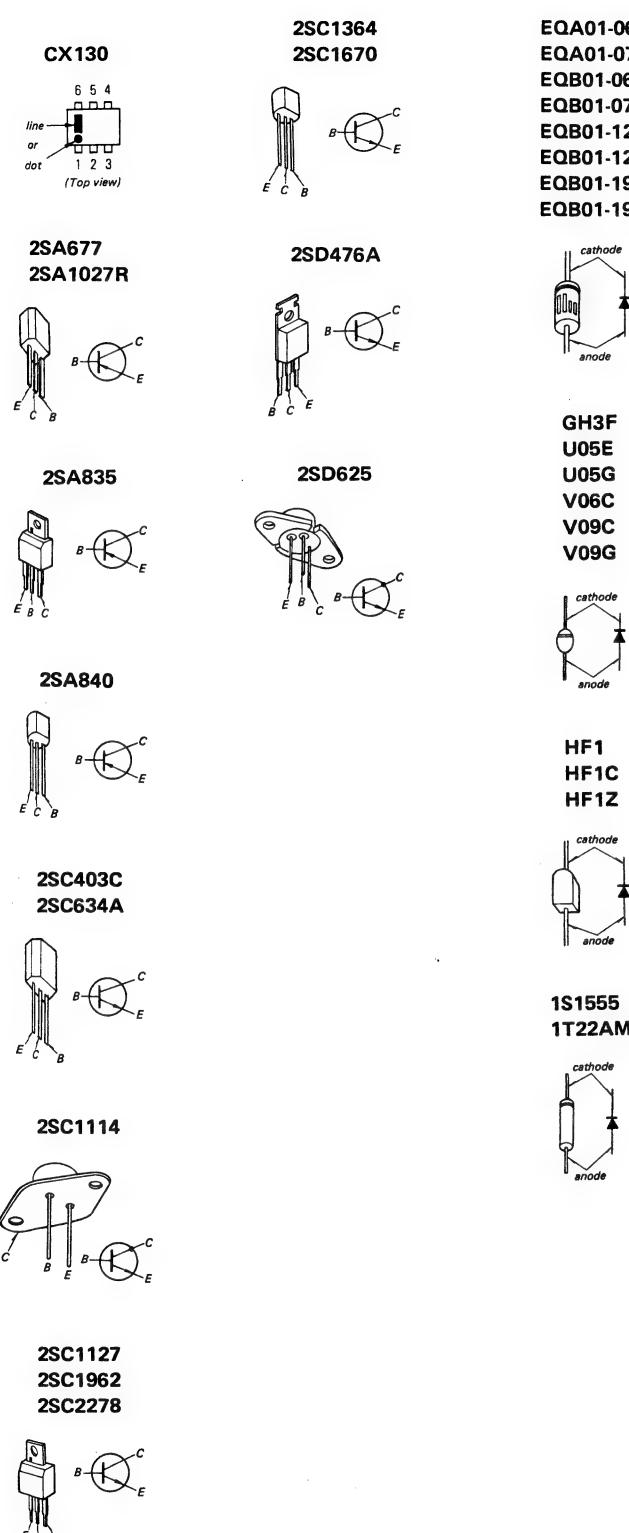
Part replaced (<input checked="" type="checkbox"/>)	Adjustment
D507, Q503, R510, R511, R512, R513, T902 (FBT)	<input checked="" type="checkbox"/> R511 adjustment
D505, Q502, R505, R506, R535, RV501	<input checked="" type="checkbox"/> R535 adjustment

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- Readings are taken with a color-bar signal input.
INPUT switch: A position
ACC switch: ON position
SYNC switch: INT position
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltage variations may be noted due to normal production tolerances.
- : adjustable without removing cabinet.
- : adjustment for repair.





SECTION 6 EXPLODED VIEWS



Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- As to the part numbered with E-, refer to the electrical parts list.
- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head
 - : TA, BV3 x 8
 - : TA, BV3 x 12
 - ▲ : TA, BV4 x 12
- The construction parts of an assembled part are indicated with a collation number in the remark column.

(1)	
1	
2	
3	
4	
No.	
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	

SECTION 6 EXPLODED VIEWS

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

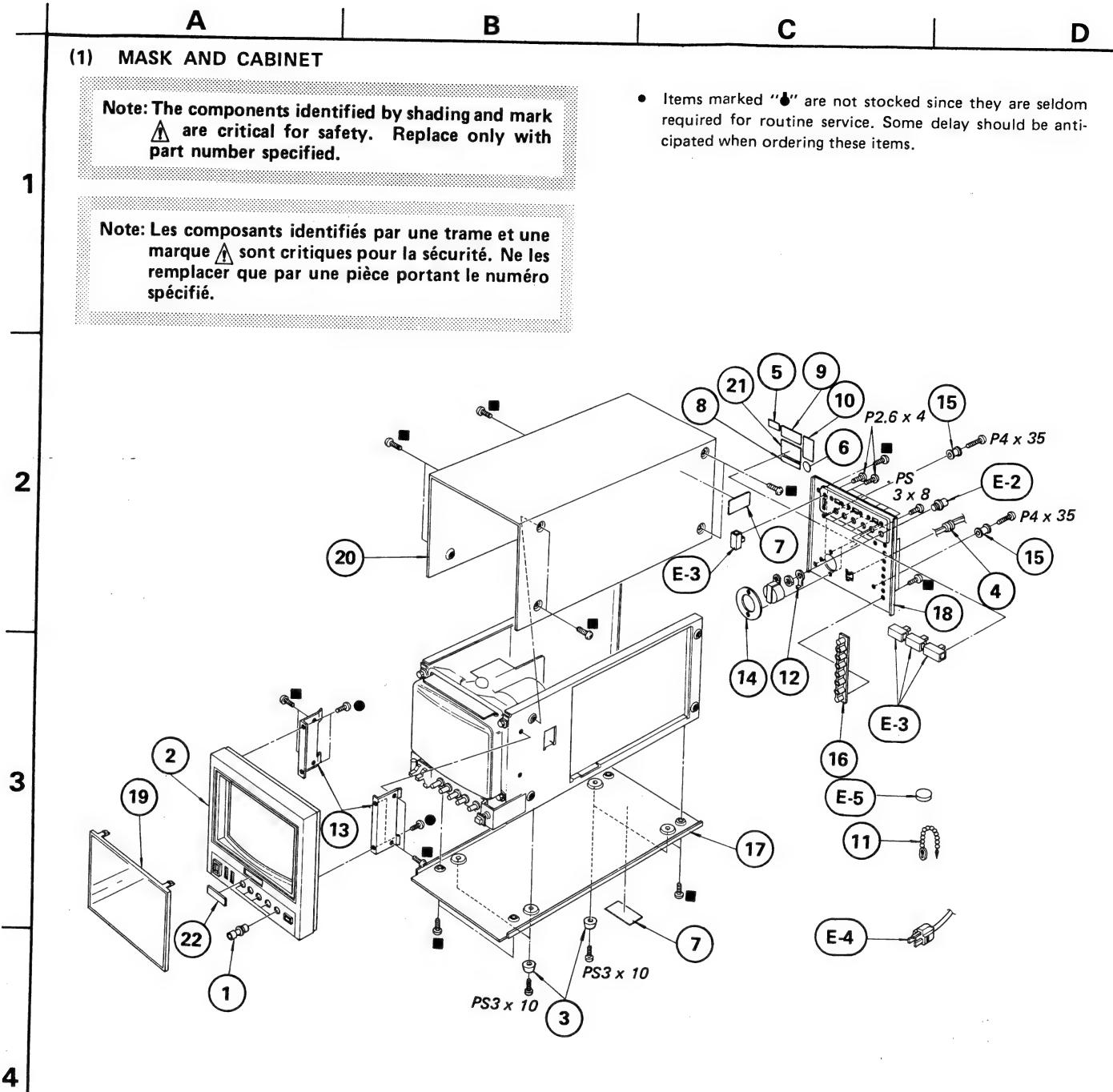
Note: Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- As to the part numbered with E-, refer to the electrical parts list.
- All screws are Phillips (cross recess) type unless otherwise noted.

(-) = slotted head
 ■ : TA, BV3 x 8
 ● : TA, BV3 x 12
 ▲ : TA, BV4 x 12

• The construction parts of an assembled part are indicated with a collation number in the remark column.



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	X-4316-209-0	Knob Ass'y, control		12	4-325-529-00	Terminal, connector	
2	X-4340-202-0	Mask Ass'y, front		13	● 4-340-202-00	Bracket, front mask	
3	X-4861-312-0	Foot Ass'y		14	4-340-205-00	Nut, plate	
4	▲ 2-045-063-00	Stopper, cord		15	4-340-206-00	Winding, cord	
5	3-701-829-01	Label, X-RAY		16	● 4-340-214-00	Insulator, control	
6	3-701-915-01	Label, UL		17	● 4-340-219-00	Cover, lower	
7	3-703-079-21	Label, caution		18	● 4-340-220-00	Cover, rear	
8	3-703-209-00	Label, commercial use		19	4-340-221-00	Filter	
9	3-703-228-00	Label, caution		20	● 4-340-226-00	Cover, upper	
10	4-010-023-04	Label, X-RAY		21	● 4-340-245-00	Label, model number	
11	4-308-870-00	Clip, lead wire		22	4-836-828-11	Emblem, SONY	

A

B

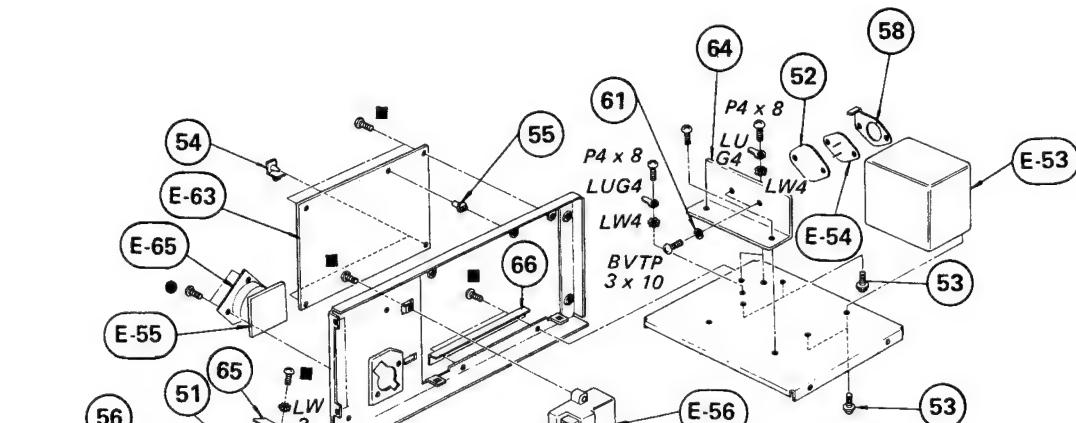
C

D

(2) CHASSIS

- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

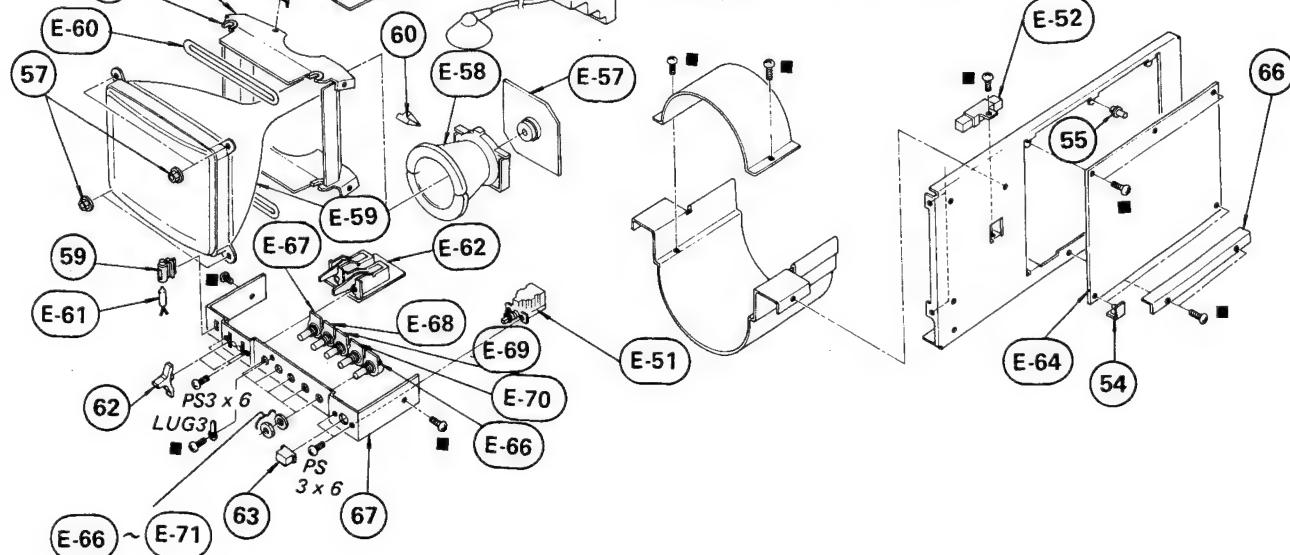
1



2



3



4

No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	● X-4325-007-0	Picture Tube shield Ass'y		60	4-309-369-00	Spacer, deflection yoke	
52	3-701-353-00	Spacer, mica		61	4-313-734-00	Bushing, transistor	
53	3-701-810-21	Screw, terminal		62	4-335-954-02	Knob, lever switch	
54	● 3-701-832-00	Hinge, circuit board		63	4-335-962-00	Pushbutton	
55	● 4-303-473-00	Support, circuit board		64	● 4-340-201-00	Heat Sink, REG	
56	4-304-483-00	Bushing, degaussing coil		65	● 4-340-209-00	Insulator (A)	
57	4-304-749-00	Nut, flange		66	● 4-340-210-00	Insulator (B)	
58	● 4-307-456-00	Holder, transistor		67	● 4-340-212-00	Bracket, control	
59	4-308-211-00	Holder, neon lamp					

SECTION 7 ELECTRICAL PARTS LIST

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

-  : Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.
- * : selected to yield optimum performance.
- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

CAPACITORS

- All capacitors are in μF and ceramic unless otherwise noted. 50WV or less are not indicated except for electrolytics. p : $\mu\mu\text{F}$, elect : electrolytic

RESISTORS

- All resistors are in ohms. Common $\frac{1}{4}\text{W}$ carbon resistors are omitted. Refer to the list on page 69 for their part numbers.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 $\text{k}\Omega$: 1000Ω , $\text{M}\Omega$: $1000\text{k}\Omega$

COILS

- All coils are microinductors unless otherwise noted.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>
B BOARD											
	● A-1295-331-A	B Board, complete			E-64	C249	1-101-002-00	0.0022			
C201-203	1-123-329-00	10	25V	elect		C250, 251	1-102-129-00	0.01			
C204	1-123-331-00	33	25V	elect		C252	1-123-316-00	10	16V	elect	
C205	1-102-949-00	12p				C253	1-102-129-00	0.01			
C206, 207	1-123-331-00	33	25V	elect		C254	1-102-947-00	10p			
C208	1-106-224-00	0.15	100V	mylar		C255	1-102-129-00	0.01			
C209	1-101-006-00	0.047				C256	1-102-888-00	150p			
C210	1-102-973-00	100p				C257	1-102-129-00	0.01			
C211, 212	1-123-352-00	1	50V	elect		C258, 259	1-102-958-00	20p			
C213	1-101-361-00	150p				C260, 261	1-102-961-00	27p			
C214	1-123-331-00	33	25V	elect		C262	1-102-963-00	33p			
C215	1-101-888-00	68p				C263	1-161-318-00	390p			
C216	1-102-824-00	470p				C264	1-123-331-00	33	25V	elect	
C217, 218	1-102-858-00	10p				C265	1-102-944-00	7p			
C219	1-123-353-00	2.2	50V	elect		C266	1-123-352-00	1	50V	elect	
C220, 221	1-123-351-00	0.47	50V	elect		C267	1-101-006-00	0.047			
C222	1-108-421-00	0.01	200V	mylar		C268	1-123-352-00	1	50V	elect	
C223	1-123-334-00	220	25V	elect		C269	1-101-006-00	0.047			
C224	1-102-125-00	0.0047				C270	1-102-824-00	470p			
C225, 226	1-102-961-00	27p				C271	1-102-973-00	100p			
C227	1-102-965-00	39p				C272	1-101-361-00	150p			
C228	1-161-316-00	270p				C273	1-102-129-00	0.01			
C229-231	1-123-329-00	10	25V	elect		C274	1-102-116-00	680p			
C232	1-123-331-00	33	25V	elect		C275	1-102-816-00	120p			
C233	1-102-949-00	12p				C276	1-102-129-00	0.01			
C234	1-123-331-00	33	25V	elect		C277	1-102-937-00	4p			
C235	1-108-365-00	0.001	100V	mylar		C278	1-102-129-00	0.01			
C236	1-123-319-00	47	16V	elect		C279	1-123-320-00	100	16V	elect	
C237	1-101-361-00	150p				C280	1-102-129-00	0.01			
C238, 239	1-123-316-00	10	16V	elect		C281	1-123-316-00	10	16V	elect	
C240	1-102-820-00	330p				C282-284	1-102-129-00	0.01			
C241	1-123-316-00	10	16V	elect		C285	1-102-961-00	27p			
C242	1-123-320-00	100	16V	elect		C286	1-102-129-00	0.01			
C243-245	1-102-129-00	0.01				C287	1-102-937-00	4p			
C246	1-123-331-00	33	25V	elect		C288	1-102-765-00	120p			
C247	1-102-129-00	0.01				C289	1-123-328-00	4.7	25V	elect	
C248	1-123-328-00	4.7	25V	elect		C290	1-102-129-00	0.01			
						C291	1-102-942-00	5p			
						C292	1-102-858-00	10p			
						C293	1-102-129-00	0.01			
						C294	1-102-816-00	120p			

- Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>		
C295	1-123-352-00	1	50V	elect		IC201				IC			
C296	1-101-888-00	68p											
C298	1-102-129-00	0.01								CX130			
C299	1-102-959-00	22p											
C301	1-102-004-00	0.01								COILS			
C302	1-101-880-00	47p					L201	1-407-159-XX	15μH				
C303	1-101-004-00	0.01					L202	1-407-171-XX	150μH				
C304	1-102-762-00	82p					L203	1-407-166-XX	56μH				
C305	1-102-973-00	100p					L204	1-407-157-XX	10μH				
C306	1-102-129-00	0.01					L205-207	1-407-661-XX	470μH				
C307	1-123-333-00	100	25V	elect			L208	1-407-204-XX	6.8mH				
C308	1-102-953-00	18p					L209	1-407-706-00	120μH				
C309	1-102-961-00	27p					L210	1-407-162-XX	27μH				
C310	1-102-953-00	18p					L211	1-407-186-XX	4.7μH				
C311	1-102-961-00	27p					TRANSISTORS						
C312	1-102-959-00	22p					⇒Q201	8-729-663-47	2SC1364				
C313	1-161-318-00	390p					Q202	8-724-375-01	2SC403C				
C314	1-102-129-00	0.01					⇒Q203, 204	8-729-663-47	2SC1364				
C315	1-123-328-00	4.7	25V	elect			⇒Q206	8-729-663-47	2SC1364				
C316	1-123-320-00	100	16V	elect			⇒Q207	8-729-612-77	2SA1027R				
C317	1-102-947-00	10p					⇒Q208, 209	8-729-663-47	2SC1364				
C318, 319	1-123-331-00	33	25V	elect			Q210	8-724-375-01	2SC403C				
C320	1-123-333-00	100	25V	elect			⇒Q211-214	8-729-663-47	2SC1364				
C321	1-102-816-00	120p					Q215	8-724-375-01	2SC403C				
C322	1-102-129-00	0.01					⇒Q216-218	8-729-663-47	2SC1364				
C323	1-102-937-00	4p					⇒Q219	8-729-612-77	2SA1027R				
C324	1-102-129-00	0.01					⇒Q220	8-729-633-47	2SC1364				
C325	1-123-320-00	100	16V	elect			⇒Q221	8-729-612-77	2SA1027R				
C326, 327	1-102-129-00	0.01					⇒Q222-224	8-729-663-47	2SC1364				
C328, 329	1-102-679-00	120p					⇒Q226	8-729-663-47	2SC1364				
C330	1-102-965-00	39p					Q227	8-724-375-01	2SC403C				
C331	1-123-352-00	1	50V	elect			⇒Q228-230	8-729-663-47	2SC1364				
C332	1-102-809-00	7p					⇒Q231	8-729-612-77	2SA1027R				
C333-335	1-102-945-00	8p					Q232	8-724-375-01	2SC403C				
DIODES													
D201-204	8-719-815-55	1S1555					⇒Q233	8-729-663-47	2SC1364				
D205-210	8-719-422-21	1T22AM					Q234-237	8-724-375-01	2SC403C				
D211-217	8-719-815-55	1S1555					⇒Q238-240	8-729-612-77	2SA1027R				
⇒D218	8-719-930-12	EQB01-12Z					⇒Q241-245	8-729-663-47	2SC1364				
D219-223	8-719-815-55	1S1555					Q246	8-724-375-01	2SC403C				
DL201, 202	1-415-100-00	Delay Line											

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>		<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>		<u>Remark</u>										
⇒Q247	8-729-663-47	2SC1364																	
RESISTORS																			
RESISTORS																			
R219	1-211-933-00	47	1/8W	carbon (nonflammable)	R701-703	1-213-158-00	18k	1W	metal oxide (nonflammable)										
R356	1-244-859-00	270	½W	carbon	R704-706	1-244-881-00	2.2k	½W	composition										
RV201	1-224-642-XX	1k, adjustable; SHARP			R707	1-244-945-00	1M	½W	composition										
RV202	1-224-965-00	470, adjustable; B. DRIVE			R708	1-202-621-00	100k	½W	composition										
RV203	1-224-965-00	470, adjustable; R. DRIVE			R709	1-202-720-00	1.2M	½W	composition										
RV204	1-224-965-00	470, adjustable; G. DRIVE			R710	1-202-629-00	220k	½W	composition										
RV205	1-226-099-00	4.7k, adjustable; B. BKG			R711	1-212-364-00	2.2	1W	metal oxide (nonflammable)										
RV206	1-226-099-00	4.7k, adjustable; R. BKG			R712	1-202-720-00	1.2M	½W	composition										
RV207	1-226-099-00	4.7k, adjustable; G. BKG			RV701	1-226-053-00	3.3M, adjustable; SCRN												
RV208	1-224-642-XX	1k, adjustable; ACC			SG701-704	1-519-063-XX	Spark Gap												
RV209	1-224-644-XX	4.7k, adjustable; HUE																	
RV210	1-224-640-XX	330, adjustable; COLOR GAIN																	
TRANSFORMERS																			
D BOARD																			
T201	1-409-193-00	3.58MHz Trap			● A-1345-259-A D Board, complete		E-63												
T202-204	1-425-794-00	BPT-2																	
T205	1-405-372-00	BAT																	
T206	1-425-618-00	COT																	
TH201	1-800-070-XX	TH-4700			CAPACITORS														
X201	1-527-154-00	Crystal			C501-504	1-102-189-00	0.0047	125V											
C BOARD					C505	1-123-364-00	1000	50V	elect										
D BOARD					C506	1-123-357-00	22	50V	elect										
CAPACITORS					C507	1-123-361-00	220	50V	elect										
C BOARD					C508	1-102-115-00	560p												
C BOARD					C509	1-123-361-00	220	50V	elect										
C BOARD					C510	1-102-115-00	560p												
C BOARD					C511	1-123-352-00	1	50V	elect										
C BOARD					C512	1-108-389-00	0.1	100V	mylar										
C BOARD					C513	1-108-381-00	0.022	100V	mylar										
CAPACITORS					C514	1-108-373-00	0.0047	100V	mylar										
C BOARD					C515	1-108-383-00	0.033	100V	mylar										
C BOARD					C516	1-123-351-00	0.47	50V	elect										
C BOARD					C517	1-108-365-00	0.001	100V	mylar										
C BOARD					C518	1-102-232-00	470p	500V											
C BOARD					C519	1-123-354-00	3.3	50V	elect										
C BOARD					C520	1-130-117-00	0.033	100V	polypropylene										
C BOARD					C521	1-108-389-00	0.1	100V	mylar										
C BOARD					C522	1-123-330-00	22	25V	elect										
TRANSISTORS																			
⇒Q701-703	8-729-322-78	2SC2278			● Items marked "●" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.														

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>			<u>Remark</u>
C523	1-123-253-00	22	160V	elect		D509, 510	8-719-815-55	1S1555			
C524	1-123-352-00	1	50V	elect		⇒D511	8-719-305-15	GH3F			
C525, 526	1-102-106-00	100p				D512	8-719-320-31	HF1C			
C527	1-102-030-00	330p	500V			⇒D514	8-719-930-19	EQB01-19Z			
C528	⚠ 1-130-118-00	0.051	400V	film		D515-517	8-719-815-55	1S1555			
C529	⚠ 1-129-708-00	3300p	630V	polypropylene							
C530	1-123-359-00	47	50V	elect		⇒D518-520	8-719-900-95	V09G			
C531	1-123-331-00	33	25V	elect		D521	8-719-815-55	1S1555			
C535	1-108-420-00	0.01	200V	mylar		⇒D522	8-719-900-95	V09G			
C536	⚠ 1-130-060-00	0.1	125V	polypropylene		D523, 524	8-719-815-55	1S1555			
C537	1-123-354-00	3.3	50V	elect							
C538	1-108-383-00	0.033	100V	mylar							
C539	1-106-224-00	0.15	100V	mylar							
C540	1-123-318-00	33	16V	elect		L501	1-405-760-00	OSC			
C541	1-131-371-00	10	16V	tantalum		L502	1-407-198-XX	2.2mH			
C542	1-123-322-00	330	16V	elect		L503	⚠ 1-421-302-XX	Line Filter, LFT			
C543	1-108-379-00	0.015	100V	mylar		L504	1-407-189-XX	8.2μH			
C544	1-123-318-00	33	16V	elect		L505	1-407-191-XX	470μH			
C545	1-123-331-00	33	25V	elect		L506	⚠ 1-459-196-00	Horizontal Linearity, HLC			
C546	1-108-371-00	0.0033	100V	mylar							
C547	1-102-030-00	330p	500V								
C548	1-123-267-00	2.2	160V	elect							
C549	1-123-351-00	0.47	50V	elect		⇒Q501-503	8-729-663-47	2SC1364			
C550	1-108-381-00	0.022	100V	mylar		⇒Q504, 505	8-729-612-77	2SA1027R			
C551	1-123-334-00	220	25V	elect		⇒Q506	8-729-663-47	2SC1364			
C552	1-123-316-00	10	16V	elect		Q507	8-727-580-26	2SD625			
C553	1-108-383-00	0.033	100V	mylar		⇒Q508	8-729-663-47	2SC1364			
C554	1-108-389-00	0.1	100V	mylar		⇒Q509	8-765-170-01	2SC1962			
C555	1-123-267-00	2.2	160V	elect		⇒Q510	8-762-020-00	2SA835			
C556, 557	1-102-106-00	100p				Q511	⚠ 8-762-112-00	2SC1670-12			
C558	1-102-002-00	680p	500V			Q511	8-762-113-00	2SC1670-13			
C559	1-108-379-00	0.015	100V	mylar		⇒Q512, 513	8-729-663-47	2SC1364			
C560	1-108-383-00	0.033	100V	mylar		⇒Q517	8-729-307-62	2SD476A			
C561	1-123-364-00	1000	50V	elect							
DIODES											
⇒D501-504	8-719-911-55	U05G									
⇒D505	8-719-931-06	EQB01-06									
D506	8-719-815-55	1S1555									
⇒D507	8-719-931-07	EQB01-07									
⇒D508	8-719-305-15	GH3F									
RESISTORS											
R502	⚠ 1-246-986-00	39	1/8W	carbon (nonflammable)							
■ R511	⚠ —————		1/4W	carbon							
R527	1-244-885-00	3.3k	1/2W	carbon							
R528	1-206-648-00	220	2W	metal oxide (nonflammable)							
R529	1-212-368-00	4.7	1W	metal oxide (nonflammable)							

Note: The components identified by shading and mark **⚠** are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque **⚠** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note: Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: The components identified by shading and mark
⚠ are critical for safety. Replace only with
part number specified.

ACCESSORIES AND PACKING MATERIALSPart No. Description

3-701-631-00	Bag, polyethylene
3-701-730-00	Bag, polyethylene; IBM card
4-340-203-00	Plate, number
4-340-231-00	Bag, protection
4-340-246-00	Carton
4-340-247-00	Cushion, front
4-340-248-00	Cushion, rear
4-491-213-21	Instruction
4-495-924-21	Manual, instruction
7-822-282-01	Card, IBM (white)
7-822-282-02	Card, IBM (pink)
7-822-282-03	Card, IBM (green)

PVM-8200T

SCC-248B-A

SONY TRINITRON® COLOR VIDEO MONITOR PVM-8200T

US and Canadian Model

Chassis No. SCC-248B-A

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET
UNE MARQUE  SUR LES DIAGRAMMES SCHÉ-
MATIQUES, LES VUES EXPLOSEES ET LA LISTE DES
PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE
FONCTIONNEMENT. NE REMPLACER CES COMPO-
SANTS QUE PAR DES PIÈCES SONY DONT LES
NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES
SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES
DU CIRCUIT QUI SONT CRITIQUES POUR LA SÉ-
CURITÉ DE FONCTIONNEMENT SONT IDENTIFIÉS
DANS CE MANUEL. SUIVRE LES PROCÉDURES
QUAND LES COMPOSANTS CRITIQUES SONT REM-
PLACÉS OU LE FONCTIONNEMENT IMPROPRE EST
SUSPECTÉ.

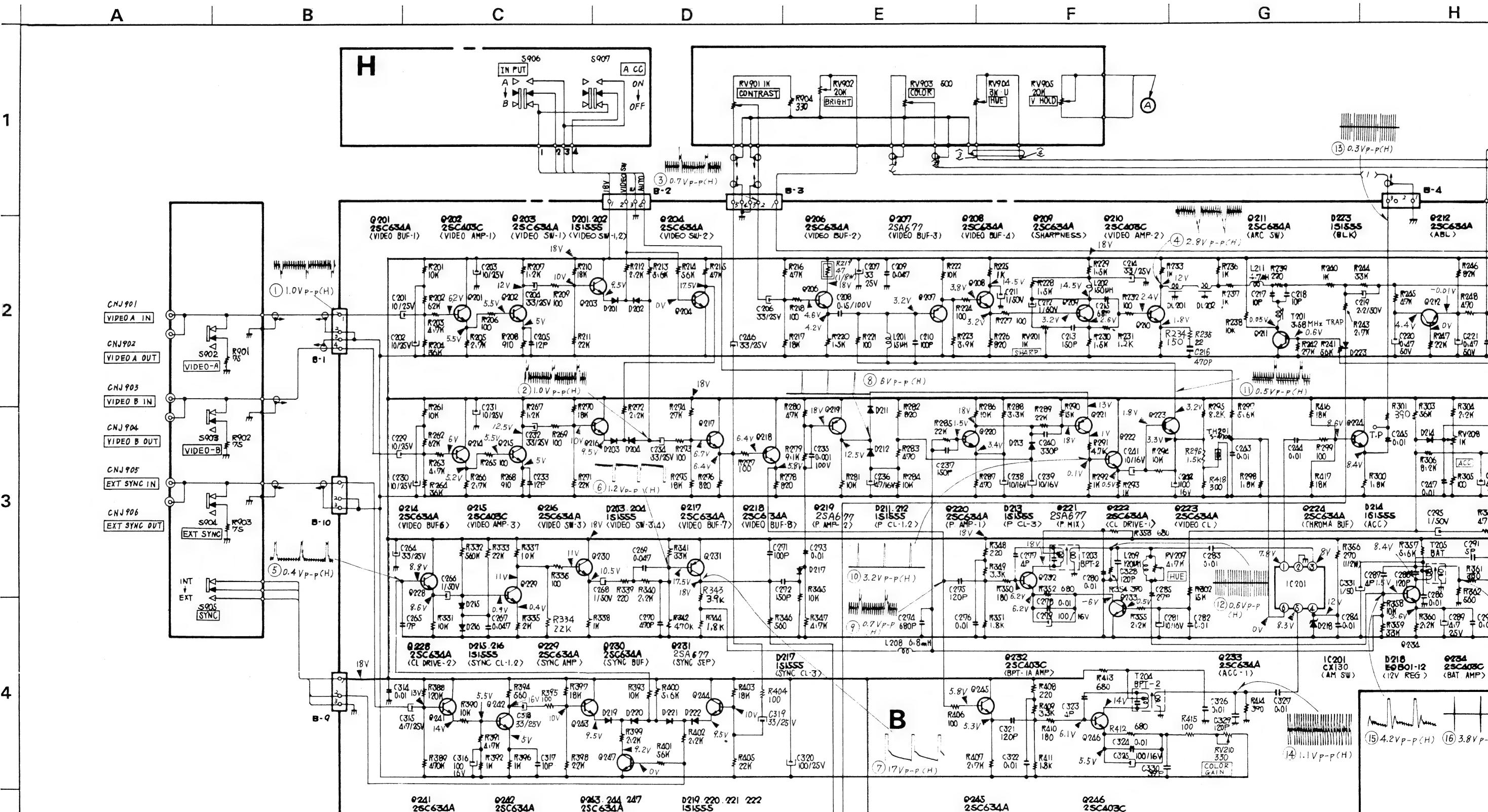
SAFETY-RELATED COMPONENT WARNING !!

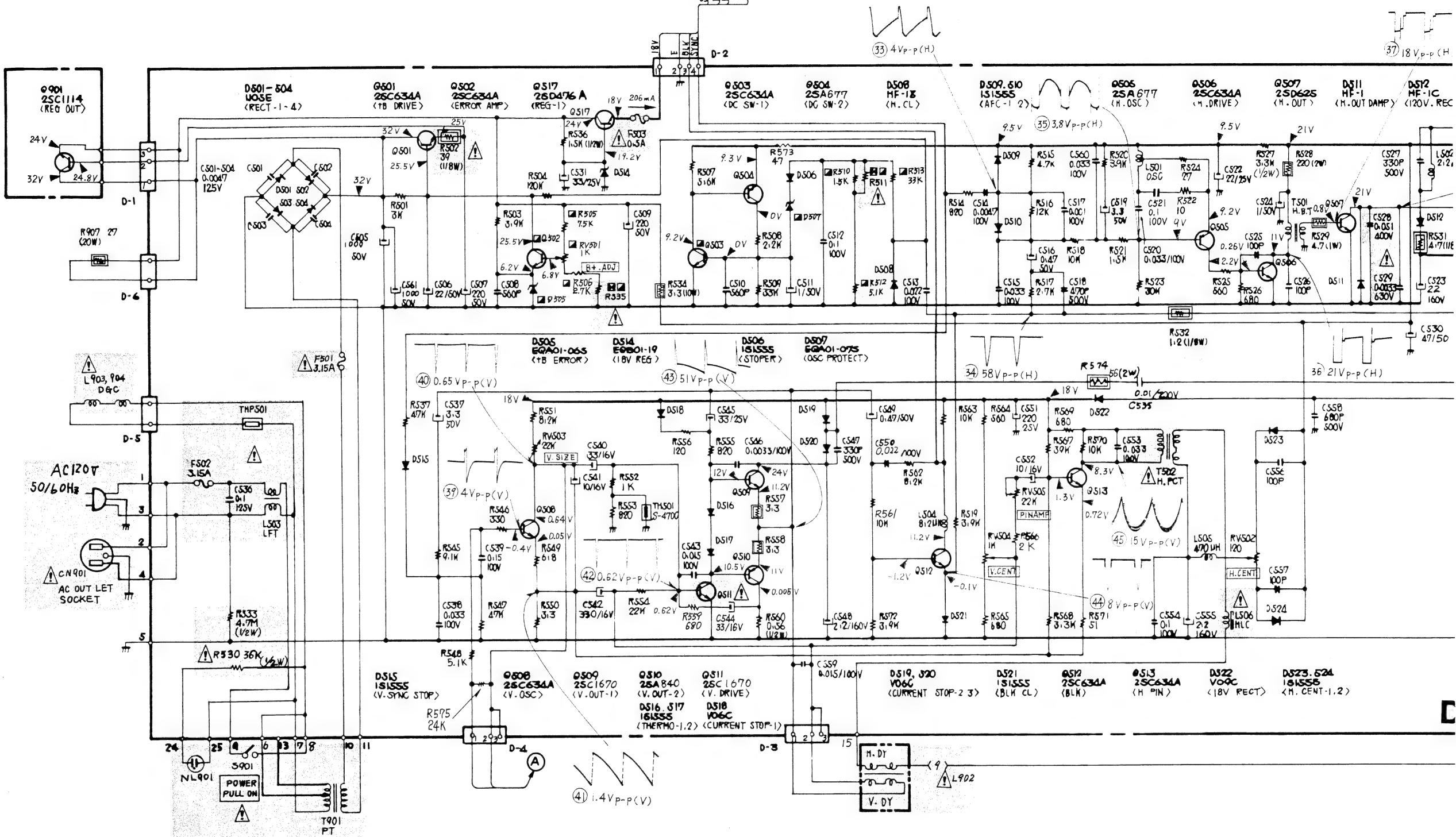
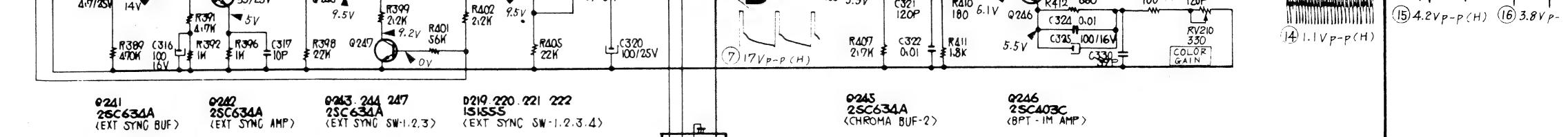
COMPONENTS IDENTIFIED BY SHADING AND MARK
⚠ **ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.**

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- All capacitors are in μF units. 50WV or less are not indicated.
- All resistors are in ohms, k Ω : 1000 Ω , M Ω : 1000k Ω .
-  : nonflammable resistor.
- \triangle : internal component.
-  : panel designation.
- The components identified have been carefully factory-selected to satisfy regulations regarding replacement be required, originally used.
- When replacing components, necessary adjustments indicate the specified value, change  and repeat the adjustment until achieved. (Refer to  and  R535 adjustment on





Components identified by shading and mark
critical for safety. Replace only with
value specified.

Components identified by a frame and mark
critical for safety. Replace only with
value specified.

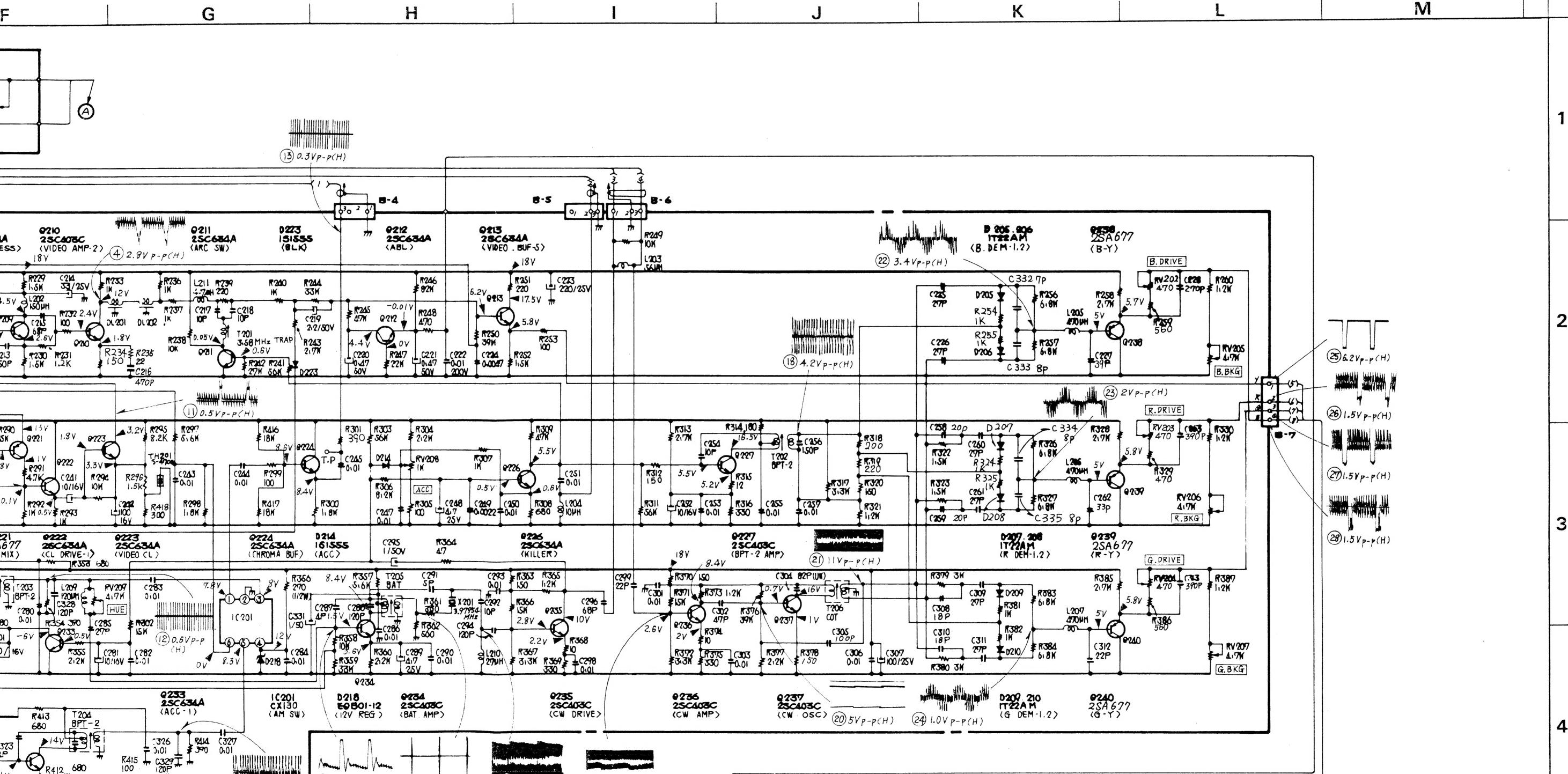
Note:

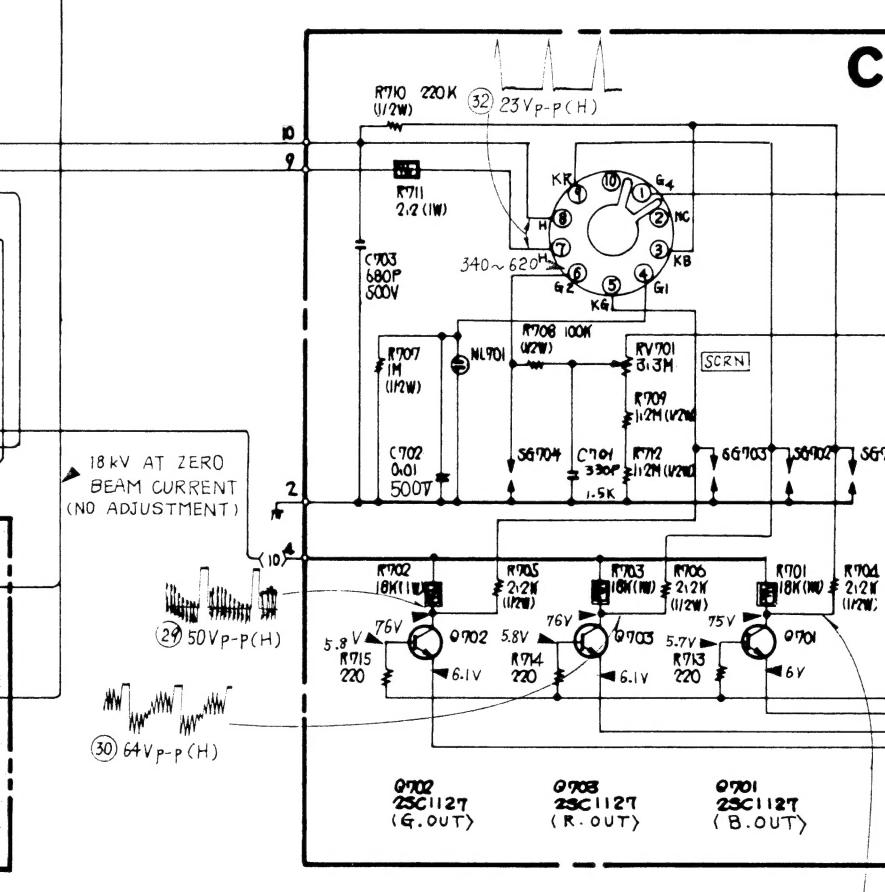
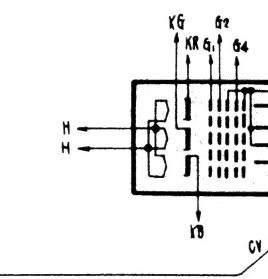
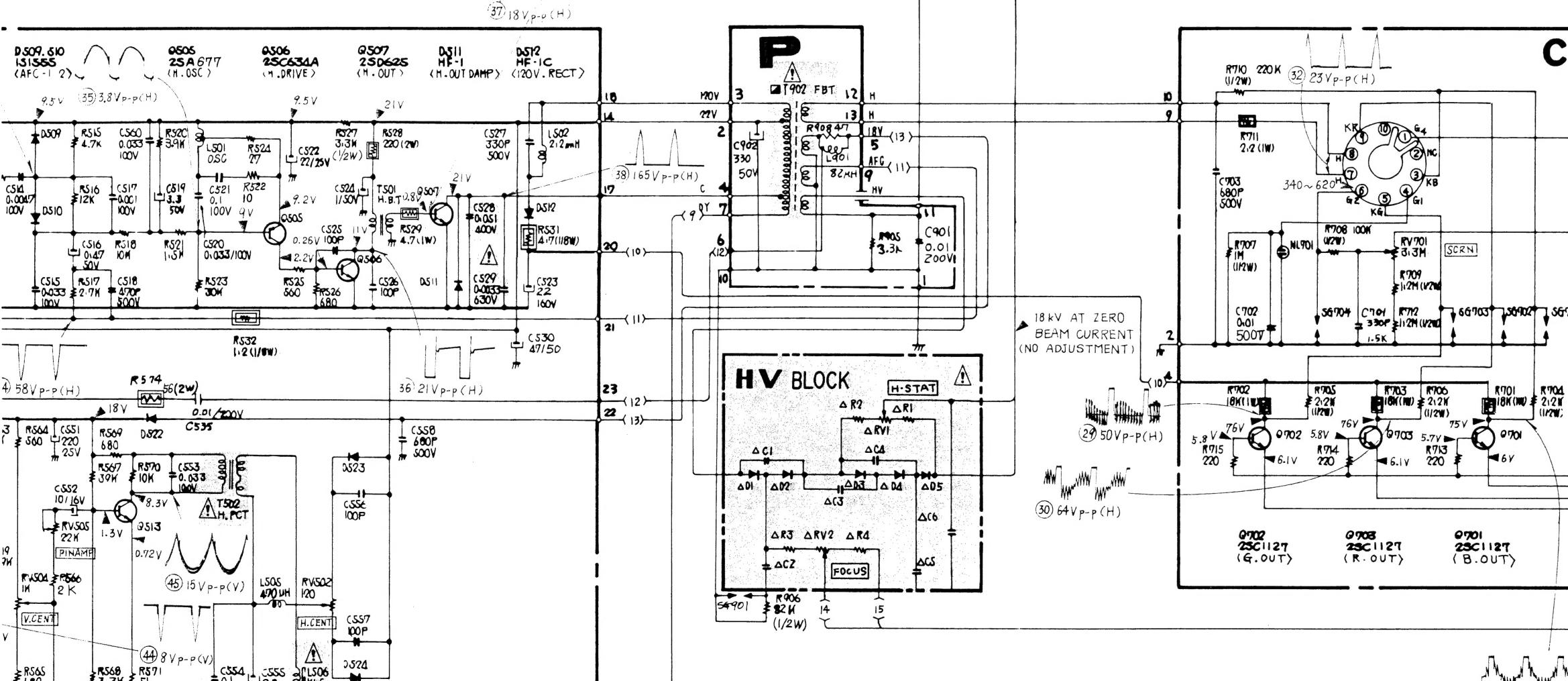
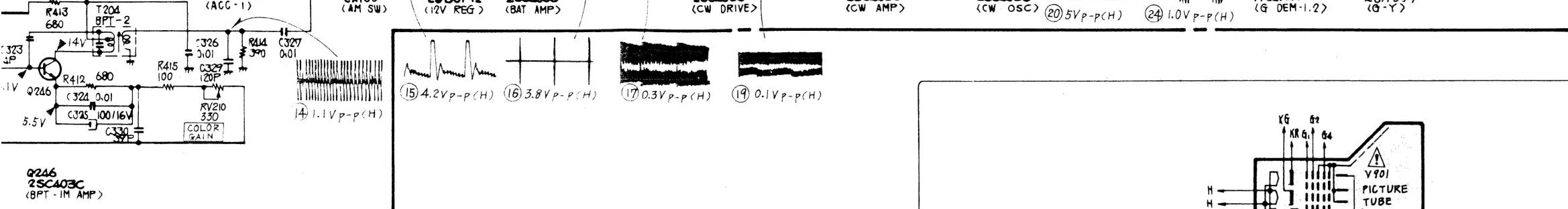
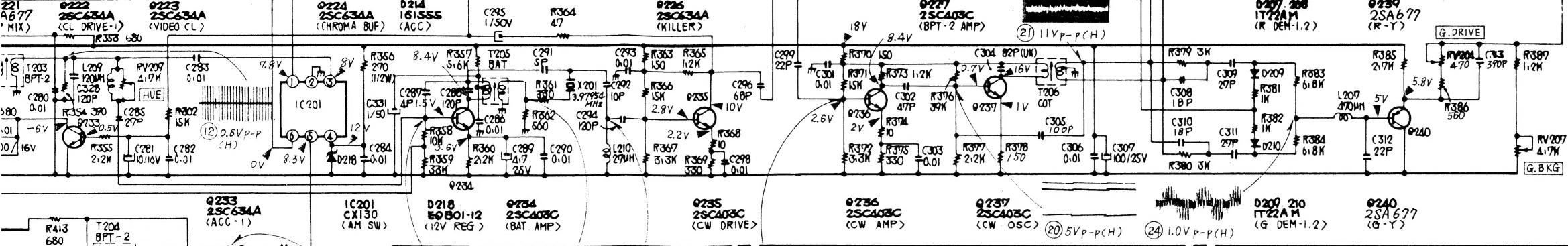
- All capacitors are in μ F unless otherwise noted. pF : $\mu\mu$ F 50WV or less are not indicated except for electrolytics.
- All resistors are in ohms, $\frac{1}{4}$ W unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000k Ω
-  : nonflammable resistor.
- \triangle : internal component.
-  : panel designation.
- The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by  and repeat the adjustment until the specified value is achieved. (Refer to  R511 adjustment on page 17 and  R535 adjustment on page 15.)

When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment
D507, Q503, R510, R511, R512, R513, T902 (FBT)	 R511 adjustment
D505, Q502, R505, R506, R535, RV501	 R535 adjustment

- Readings are taken with a 20,000-ohm-per-volt VOM.
- Voltage variations may be noted due to normal production tolerances.
-  : adjustable without removing cabinet.
-  : adjustment for repair.



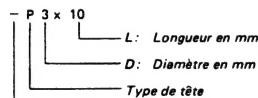


RESISTANCES DE 1/4 W AU CARBONE

Ω	Pièce No										
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00

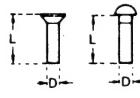
NOMENCLATURE FERRONNERIE

Vis:



Précise le type de rainure de la tête.

Sauf indication contraire il s'agit de vis cruciforme (Type Phillips)



Ecrou, Rondelle, Circlips:

N 3

Diamètre de la vis ou de l'axe utilisable

Désignation de la référence

Désignation de la référence	Forme	Description	Remarques
VIS			
P		Vis à tête cylindrique large	Peut être remplacée par une vis à tête cylindrique (B).
PWH		Vis à tête cylindrique large et rondelle fixe.	Peut être remplacée par une vis à tête cylindrique (B) et une rondelle fixe.
PS PSP		Vis à tête cylindrique large et rondelle à ressort fixe.	Peut être remplacée par une vis à tête cylindrique (B) et une rondelle à ressort.
PSW PSPW		Vis à tête cylindrique large et rondelle plate et à ressort.	Peut être remplacée par une vis à tête cylindrique (B) et une rondelle plate plus une rondelle plate plus une rondelle à ressort.
R		Vis à tête ronde	Peut être remplacée par une vis à tête cylindrique (B).
K		Vis à tête fraisée	
RK		Vis à tête fraisée bombée	
B		Vis à tête cylindrique	
T		Vis à tête ronde large	Peut être remplacée par une vis à tête cylindrique (B).
F		Vis à tête moulée plate	
RF		Vis à tête moulée	
BV		Vis à tête braizer	

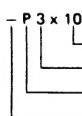
Désignation de la référence	Forme	Description	Remarques
VIS AUTOTARODEUSES			
TA		Vis autotarodeuse	ex: TA, P 3 x 10
PTP		Vis autotarodeuse à tête cylindrique large.	Peut être remplacée par une vis autotarodeuse à tête cylindrique (TA, B).
PTPWH		Vis autotarodeuse à tête cylindrique large et rondelle fixe.	Peut être remplacée par une vis autotarodeuse à tête cylindrique (TA, B) et une rondelle plate.
PTTWH		Vis à tête filetée et tête cylindrique large avec rondelle fixe.	Peut être remplacée par une vis à tête cylindrique (B) et une rondelle plate.
VIS DE SERRAGE			
SC		Vis de serrage	
SC		Vis de serrage à douille hexagonale	ex: SC 2,6 x 4, douille hexagonale
ECROU			
N		Ecrou	
RONDELLES			
W		Rondelle plate	
SW		Rondelle à ressort	
LW		Rondelle éventail denture intérieure	ex: LW3, intérieure
LW		Rondelle éventail denture extérieure	ex: LW3, extérieure
CIRCLIPS			
E		Circlips	
G		Circlips à griffle	

1/4 WATT CARBON RESISTORS

Ω	Part No.										
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00

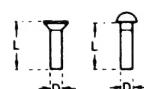
HARDWARE NOMENCLATURE

Screw:



Indicated slotted-head only.

Unless otherwise indicated, it means cross-recessed head (Phillips type).



Nut, Washer, Retaining ring:

Diameter of usable screw or shaft
Reference designation

Reference Designation	Shape	Description	Remarks
SCREWS			
P		pan-head screw	binding-head (B) screw for replacement
PWH		pan-head screw with washer face	binding-head (B) screw and flat washer for replacement
PS PSP		pan-head screw with spring washer	binding-head (B) screw and spring washer for replacement
PSW PSPW		pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement
R		round-head screw	binding-head (B) screw for replacement
K		flat-countersunk-head screw	
RK		oval-countersunk-head screw	
B		binding-head screw	
T		truss-head screw	binding-head (B) screw for replacement
F		flat-fillister-head screw	
RF		fillister-head screw	
BV		braizer-head screw	

Reference Designation	Shape	Description	Remarks
SELF-TAPPING SCREWS			
TA		self-tapping screw	ex: TA, P 3 x 10
PTP		pan-head self-tapping screw	binding-head self-tapping (TA, B) screw for replacement
PTPWH		pan-head self-tapping screw with washer face	binding-head self-tapping (TA, B) screw and flat washer for replacement
PTTWH		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement
SET SCREWS			
SC		set screw	
SC		hexagon-socket set screw	ex: SC 2.6 x 4, hexagon socket
NUT			
N		nut	
WASHERS			
W		flat washer	
SW		spring washer	
LW		internal-tooth lock washer	ex: LW3, internal
LW		external-tooth lock washer	ex: LW3, external
RETAINING RINGS			
E		retaining ring	
G		grip-type retaining ring	

Sony Corporation